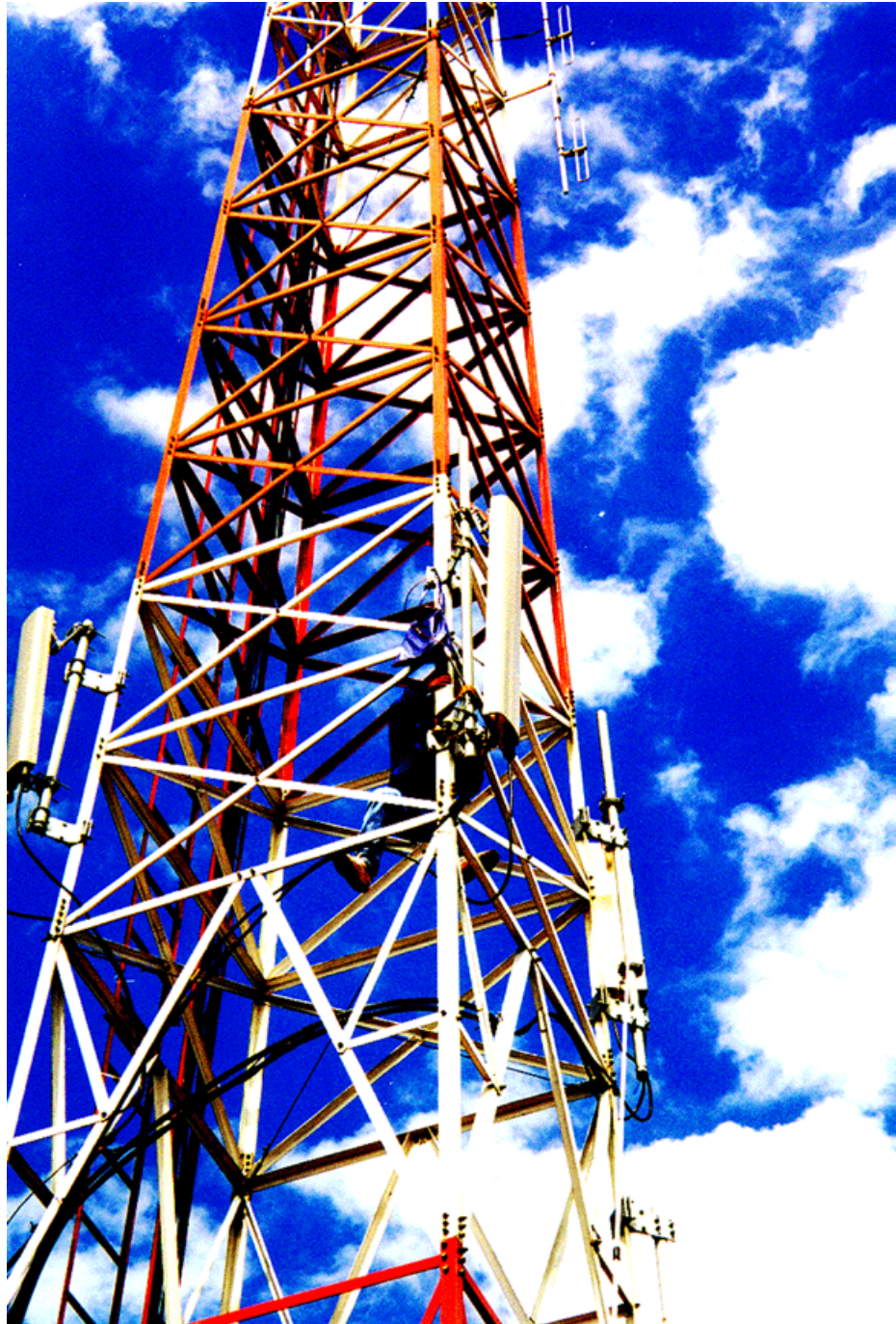




High performance site components





Introduction

Egant AB is one of the leading suppliers of products for Cellular infrastructure.

Specialised in products that makes it possible to share antenna systems, combining signals and designing cost effective mobile networks.

**Egant AB works close together with its customers to make solutions and projects optimized for today's demands.
Giving you products that is always in the latest design and highest technology.**

Our design centre in Stockholm Sweden is always happy for new challenges and welcomes all new projects and design ideas.

More information can be found at: www.egant.se

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Website: www.egant.se



Quad Band Combiner

www.egant.se

Frequency range

Quad Band Combiner

380-960, 1800, 2100, 2600MHz

380-960, 1800, 2100, 2600MHz

Description

Quad Band Combiner

Quad Band Combiner

Connector

7/16(f)

4.3-10(f)

Ordering number

EG 601 0121

EG 602 0256



Quad Band Combiner

TETRA/GSM900, GSM1800, UMTS, LTE2600

Combines 4 RBSs into 1 antenna port

This Quad Band Combiner enables the connection of 4 Radio Base Stations to the combiner:

- 1 TETRA/GSM900 Radio Base Station
- 1 GSM1800 Radio Base Station
- 1 UMTS Radio Base Station
- 1 LTE2600 Radio Base Station

The combiner combines the 4 signals to 1 antenna port, or splits the signal to the 4 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our quad band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Quad Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0121
Passband:	
Port 1: Tetra - GSM900	380- 960 MHz
Port 2: GSM1800	1710 - 1880 MHz
Port 3: UMTS	1920 - 2170 MHz
Port 4: LTE2600	2500-2690MHz
Insertion loss:	≤ 0.30 dB
Input return loss:	> 18 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	
Port 1:	< 300 W
Port 2:	< 300 W
Port 3:	< 300 W
port 4:	< 200 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)
DC by-pass between all inputs to output:	1A, max, per input

Mechanical Specifications

Dimensions (W x H x D):	260 x 50 x 220 mm
Connectors:	7/16 (f)
Weight:	4 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP66

Egant reserves the right to change this product specification at any time without notice.

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Made in Sweden

RevC



Quad Band Combiner

380-960, 1800, 2100, 2600

Combines 4 RBSs into 1 antenna port

This Quad Band Combiner enables the connection of 4 Radio Base Stations to the combiner:

- 1 x 380-960 Radio Base Station
- 1 x 1800 Radio Base Station
- 1 x 2100 Radio Base Station
- 1 x 2600 Radio Base Station

The combiner combines the 4 signals to 1 antenna port, or splits the signal to the 4 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our quad band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Quad Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0256
Passband:	
Port 1: TETRA/900	380 - 960 MHz
Port 2: 1800	1710 - 1880 MHz
Port 3: 2100	1920 - 2170 MHz
Port 4: 2600	2500 - 2690MHz
Insertion loss:	≤ 0.50 dB, typ 0.3dB
Input return loss:	> 17 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	< 300 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)
DC by-pass:	Available

Mechanical Specifications

Dimensions (W x H x D):	260 x 50 x 220 mm
Connectors:	4.3-10.0 (f)
Weight:	4 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +60° C
Humidity:	Relative 5 - 95%
Sealing:	IP67

Egant reserves the right to change this product specification at any time without notice.

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Made in Sweden

RevB



Triple Band Combiner

www.egant.se

<u>Frequency range</u>	<u>Description</u>	<u>Connector</u>	<u>Ordering number</u>
<i>Triple Band Combiners</i>			
DC-2170, 2400-2500, 5000-6000MHz	Triple Band Combiner	N(f)	EG 602 0151
88-108, 376-495, 1570-1580MHz	Triple Band Combiner	7/16(f)	EG 602 0044
376-480, 880-960, 1710-1880MHz	Triple Band Combiner	7/16(f)	EG 602 0178
376-500, 880-960, 1920-2170MHz	Triple Band Combiner	7/16(f)	EG 602 0080
806-960, 1710-1880, 1920-2170MHz	Triple Band Combiner	7/16(f)	EG 100 9012
880-960, 1710-1880, 1920-2170MHz	Triple Band Combiner	SMA(f)	EG 100 9019
880-960, 1710-1880, 1920-2170MHz	Triple Band Combiner	N(f)	EG 602 0041
880-960, 1920-2170, 2500-2690MHz	Triple Band Combiner	7/16(f)	EG 602 0150



Triple Band Combiner
DC-2170MHz, 2400-2500MHz,
5000-6000MHz

This triple band combiner combines cellular networks with local wireless networks. The combiner combines the 3 signals to 1 antenna port, or splits the signal in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing the Egant triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Triple Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0151
Passband:	
Port 1:	DC - 2170 MHz
Port 2:	2400 - 2500 MHz
Port 3:	5000 - 6000 MHz

Insertion loss:	
Port 1: - ANT	≤ 1.2 dB
Port 2: - ANT	≤ 1.5 dB
Port 3: - ANT	≤ 0.7 dB

Input return loss:	> 14.0 dB
Isolation between systems:	≥ 45 dB

Max input power/port:	50W, (max 50W total)
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Impedance in/out:	50 Ohm
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Intermodulation:	
IM 3, 2 x 43 dBm:	< -107 dBm (150 dBc)

Mechanical Specifications

Dimensions (W x H x D):	222 x 25 x 127 mm
Connectors:	N (f)
Weight:	1.6 kg

Environmental Specifications

Temp. range (normal operation):	-0 to +55° C
Humidity:	Relative 5 - 100%

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Triple Band Combiner **160MHz, TETRA, GPS**

Combines 3 Radio Systems into 1 Antenna Port

This triple band combiner enables the connection of 3 Systems to the combiner:

- 1 160MHz System
- 1 TETRA System
- 1 GSP System

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 Systems in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple Radio Systems to the shared antennas.

Reduces cost

By utilizing the Egant triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Triple Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0044
Passband:	
Port 1: 160MHz	88 - 180 MHz
Port 2: TETRA	376 - 495 MHz
Port 3: GPS	1570 - 1580 MHz

Insertion loss:

Port 1: 160MHz - ANT	≤ 0.9 dB
Port 2: TETRA - ANT	≤ 0.9 dB
Port 3: GPS - ANT	≤ 0.5 dB

Input return loss:

> 14.0 dB

Isolation between systems:

≥ 30 dB

Max input power/port:

Port 1: 160MHz	10 W
Port 2: TETRA	20 W
Port 3: GPS	10 W

Impedance in/out:

50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	350 x 130 x 60 mm
Connectors:	7/16 (f)
Weight:	3,5 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP65

Egant reserves the right to change this product specification at any time without notice.

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Triple Band Combiner **TETRA, GSM900, GSM1800**

Combines 3 RBSs into 1 antenna port

This triple band combiner enables the connection of 3 Radio Base Stations to the combiner:

- 1 TETRA Radio Base Station
- 1 GSM900 Radio Base Station
- 1 GSM1800 Radio Base Station

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Triple Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0178
Passband:	
Port 1: TETRA	376 - 480 MHz
Port 2: GSM900	880 - 960 MHz
Port 3: GSM1800	1710 - 1880 MHz
Insertion loss:	
Port 1: TETRA - ANT	≤ 0.30 dB, typ 0,15dB
Port 2: GSM900 - ANT	≤ 0.55 dB, typ 0,3dB
Port 3: GSM1800 - ANT	≤ 0.65 dB, typ 0,4dB
Input return loss:	> 18.0 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	< 100 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	153 dBc

Mechanical Specifications

Dimensions (W x H x D):	300 x 150 x 500 mm
Connectors:	7/16 (f)
Weight:	8 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP66

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Triple Band Combiner **TETRA, GSM900, UMTS**

Combines 3 RBSs into 1 antenna port

This triple band combiner enables the connection of 3 Radio Base Stations to the combiner:

- 1 TETRA Radio Base Station
- 1 GSM900 Radio Base Station
- 1 UMTS Radio Base Station

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Triple Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0080
Passband:	
Port 1: TETRA	376 - 500 MHz
Port 2: GSM900	880 - 960 MHz
Port 3: UMTS	1920 - 2170 MHz
Insertion loss:	
Port 1: TETRA - ANT	≤ 0.30 dB, typ 0,15dB
Port 2: GSM900 - ANT	≤ 0.55 dB, typ 0,3dB
Port 3: UMTS - ANT	≤ 0.65 dB, typ 0,4dB
Input return loss:	> 18.0 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	
Port 1: TETRA	< 200 W
Port 2: GSM900	< 200 W
Port 3: UMTS	< 100 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	153 dBc

Mechanical Specifications

Dimensions (W x H x D):	300 x 150 x 500 mm
Connectors:	7/16 (f)
Weight:	8 kg

Environmental Specifications

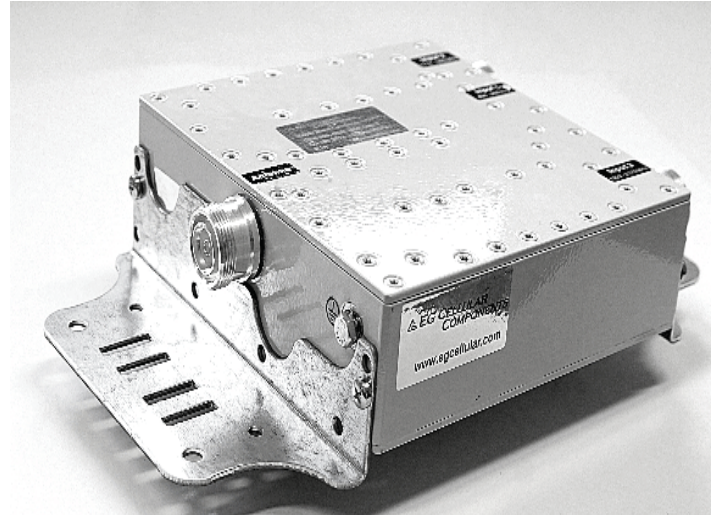
Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP66

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Triple Band Combiner/Dual Band Combiner UMTS, GSM1800, GSM900 / GSM1800, UMTS



Reduces cost

By utilizing our triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 3 RBSs into 1 antenna port

This triple band combiner enables the connection of 3 Radio Base Stations to the combiner:

- 1 GSM900 Radio Base Station
- 1 GSM1800 Radio Base Station
- 1 UMTS Radio Base Station

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Dual Band Combiner - combines 2 RBSs into 1 antenna port

The dual band combiner enables you to connect 2 Radio Base Stations to the combiner:

- 1 GSM1800 Radio Base Station
- 1 UMTS Radio Base Station

Technical Specifications for the Triple Band Combiner/Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

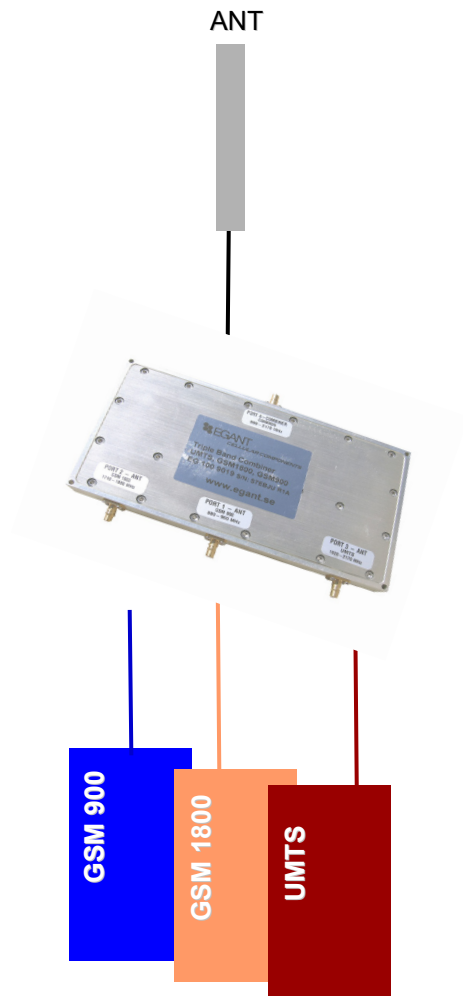
Electrical Specifications		
Product number:	EG 100 9012	EG 100 9009
Passband:		
Port 1: GSM900	698 - 960 MHz	
Port 2: GSM1800	1710 - 1880 MHz	1710 - 1880 MHz
Port 3: UMTS	1920 - 2170 MHz	1920 - 2170 MHz
Insertion loss:		
Port 1: GSM900 - ANT	≤ 0.20 dB	
Port 2: GSM1800 - ANT	≤ 0.30 dB	≤ 0.40 dB
Port 3: UMTS - ANT	≤ 0.45 dB	≤ 0.45 dB
Input return loss:	> 21.0 dB	> 20.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: GSM900	< 200 W	
Port 2: GSM1800	< 200 W	< 200 W
Port 3: UMTS	< 100 W	< 100 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153dBc)
DC by-pass between all inputs to output:	1A, max, per input	1A, max, per input
Mechanical Specifications		
Dimensions (W x H x D):	230 x 200 x 555 mm	245 x 210 x 50 mm
Connectors:	7/16 (f)	7/16 (f)
Weight:	3.6 kg	3.6 kg
Environmental Specifications		
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP66	IP66

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Triple Band Combiner UMTS, GSM1800, GSM900



Reduces cost

By utilizing the Egant triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 3 RBSs into 1 Antenna Port

This triple band combiner enables the connection of 3 Radio Base Stations to the combiner:

- 1 GSM900 Radio Base Station
- 1 GSM1800 Radio Base Station
- 1 UMTS Radio Base Station

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Triple Band Combiner

Below are some typical data. For more detailed information, please contact us.

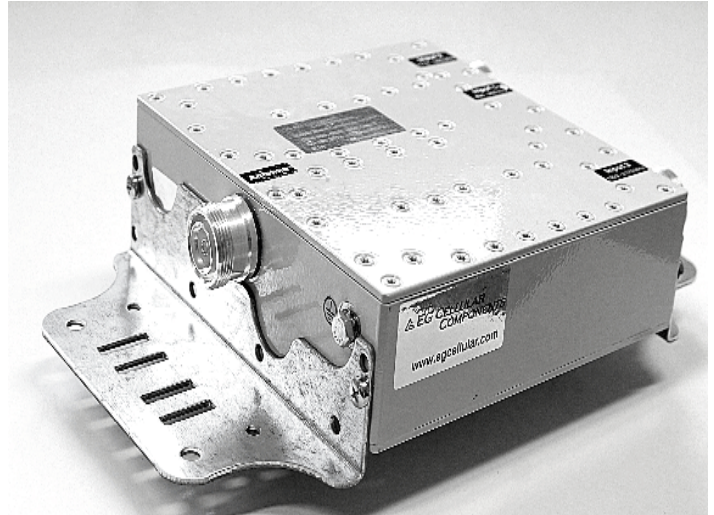
Electrical Specifications		
Product number:	EG 100 9019	EG 602 0041
Passband:		
Port 1: GSM900	880 - 960 MHz	880 - 960 MHz
Port 2: GSM1800	1710 - 1880 MHz	1710 - 1880 MHz
Port 3: UMTS	1920 - 2170 MHz	1920 - 2170 MHz
Insertion loss:		
Port 1: GSM900 - ANT	≤ 1.3 dB	≤ 1.3 dB
Port 2: GSM1800 - ANT	≤ 1.3 dB	≤ 1.3 dB
Port 3: UMTS - ANT	≤ 1.3 dB	≤ 1.3 dB
Input return loss:	> 16.0 dB	> 16.0 dB
Isolation between systems:	≥ 30 dB	≥ 30 dB
Max input power/port:		
Port 1: GSM900	20 W	20 W
Port 2: GSM1800	20 W	20 W
Port 3: UMTS	20 W	20 W
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	195 x 130 x 30 mm	195 x 130 x 30 mm
Connectors:	SMA (f)	N (f)
Weight:	1 kg	1 kg
Environmental Specifications		
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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Triple Band Combiner GSM900, UMTS, LTE2600MHz



Combines 3 RBSs into 1 antenna port

This triple band combiner enables the connection of 3 Radio Base Stations to the combiner:

- 1 GSM900 Radio Base Station
- 1 UMTS Radio Base Station
- 1 LTE2600 Radio Base Station

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Triple Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0150
Passband:	
Port 1: GSM900	880 - 960 MHz
Port 2: UMTS	1920 - 2170MHz
Port 3: LTE2600	2490 - 2690 MHz
Insertion loss:	
Port 1: GSM900 - ANT	≤ 0.25 dB
Port 2: UMTS - ANT	≤ 0.25 dB
Port 3: LTE - ANT	≤ 0.25 dB
Input return loss:	> 18.0 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	
Port 1: GSM900	< 300 W
Port 2: UMTS	< 300 W
Port 3: LTE2600	< 300 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	230 x 50 x 200 mm
Connectors:	7/16 (f)
Weight:	3.6 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +65° C
Humidity:	Relative 5 - 100%
Sealing:	IP66

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner

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<u>Frequency range</u>	<u>Description</u>	<u>Connector</u>	<u>Ordering number</u>
Dual Band Combiners			
DC-470, 698-2700MHz	Dual Band Combiner	7/16(f)	EG 602 0307
DC-470, 698-2700MHz	Dual Band Combiner	4.3-10(f)	EG 602 0308
68-470, 791-862MHz	Dual Band Combiner	7/16(f)	EG 602 0182
68-470, 791-862MHz	Dual Band Combiner	N(f)	EG 602 0222
68-470, 870-970MHz	Dual Band Combiner	N(f)	EG 100 9015
68-470, 870-970MHz	Dual Band Combiner	7/16(f)	EG 100 9016
68-470, 870-970MHz	Dual Band Combiner	7/16(f)	EG 100 9017
68-470, 870-970MHz	Dual Band Combiner	4.3-10(f)	EG 602 0262
68-500, 698-2700MHz	Dual Band Combiner	N(f)	EG 602 0115
68-500, 698-2700MHz	Dual Band Combiner	7/16(f)	EG 602 0120
68-500, 698-2700MHz	Dual Band Combiner	4.3-10(f)	EG 602 0252
68-500, 790-2700MHz	Dual Band Combiner	7/16(f)	EG 602 0072
68-500, 790-2700MHz	Dual Band Combiner	4.3-10(f)	EG 602 0259
68-2170, 2400-2500MHz	Dual Band Combiner	7/16(f)	EG 602 0007
80-240, 376-480MHz	Dual Band Combiner	N(f)	EG 602 0183
80-240, 376-480MHz	Dual Band Combiner	N(f)	EG 602 0184
80-240, 376-480MHz	Dual Band Combiner	7/16(f)	EG 602 0038
80-240, 376-480MHz	Dual Band Combiner	7/16(f)	EG 602 0030
80-960, 1710-2700MHz	Dual Band Combiner	N(f)	EG 602 0111
80-960, 1710-2700MHz	Dual Band Combiner	7/16(f)	EG 602 0108
80-960, 1710-2700MHz	Dual Band Combiner	4.3-10(f)	EG 602 0261
80-960, 1710-2700MHz	Dual Band Combiner 200W	7/16(f)	EG 602 0309
80-960, 1710-2700MHz	Dual Band Combiner 200W	4.3-10(f)	EG 602 0310
155-500, 1575-1576MHz	Dual Band Combiner	7/16(f)	EG 602 0049
376-500, 1920-2170MHz	Dual Band Combiner	N(f)	EG 602 0045
376-500, 1920-2170MHz	Dual Band Combiner	7/16(f)	EG 602 0046



Dual Band Combiner

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Frequency range

Dual Band Combiners

376-2170, 2400-2500MHz
376-2170, 2400-2500MHz
376-2170, 2400-2500MHz
376-2170, 2500-2700MHz
376-2170, 2500-2700MHz
380-395, 410-425MHz
380-395, 410-425MHz
380-395, 440-450MHz
380-395, 440-450MHz
380-395, 440-450MHz
380-395, 442,975-448,975MHz
380-395, 450-470MHz
790-862, 880-960MHz
790-862, 880-960MHz
790-1000, 1710-2170MHz
800-1000, 1710-2170MHz
800-1000, 1710-2170MHz
880-960, 1710-1880MHz
890-960, 1710-2700MHz
1710-1880, 1920-2170MHz
1710-2170, 2490-2700MHz

Description

Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner 70dB Isolation
Dual Band Combiner
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Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner
Dual Band Combiner

Connector

N(f)
7/16(f)
7/16(m), 7/16(f), N(f)
N(f)
7/16(f)
N(f)
7/16(f)
7/16(f)
4.3-10(f)
4.3-10(f)
N(f)
N(f)
N(f)
7/16(f)
7/16(f)
N(f)
7/16(f)
7/16(f)
7/16(f)
7/16(f)
7/16(f)
4.3-10(f)

Ordering number

EG 100 9018
EG 100 9028
EG 602 0007
EG 602 0076
EG 602 0074
EG 602 0023
EG 602 0024
EG 602 0191
EG 602 0281
EG 602 0283
EG 602 0176
EG 602 0094
EG 602 0112
EG 602 0097
EG 602 0110
EG 100 9014
EG 100 9013
EG 602 0034
EG 602 0096
EG 100 9009
EG 602 0243



Dual Band Combiner
DC - 470 MHz / 698 - 2700 MHz

Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0307	EG 602 0308
Passband:		
Port 1: Low band	DC - 470 MHz	DC - 470 MHz
Port 2: High band	698 - 2700 MHz	698 - 2700 MHz
Insertion loss:	≤ 0.5 dB, typ 0.15dB	≤ 0.5 dB, typ 0,15dB
Input return loss:	> 16.0 dB, typ 20dB	> 16.0 dB, typ 20dB
Isolation between systems:	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: Low band	150 W	150 W
Port 2: High band	300 W	300 W
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -160 dBc	≤ -160 dBc
Impedance in/out:	50 Ohm	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	274 x 44 x 149 mm	274 x 44 x 149 mm
Connectors:	7/16 (f)	4.3-10 (f)
Weight:	1.5 kg	1.5 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +60° C	-20 to +60° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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Made in Sweden

RevA



Dual Band Combiner
TETRA / LTE800
68 - 470 MHz / 791 - 862 MHz



Combines 2 RBSs into 1 antenna port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 TETRA Radio Base Station
- 1 LTE800 Radio Base Station

The combiner combines the 2 signals to the antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0182	EG 602 0222
Passband:		
Port 1: TETRA	68 - 470 MHz	68 - 470 MHz
Port 2: LTE800	791 - 862 MHz	791 - 862 MHz
Insertion loss:		
Port 1: TETRA	≤ 0.3 dB	≤ 0.3 dB
Port 2: LTE800	≤ 0.5 dB	≤ 0.5 dB
Input return loss:	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: TETRA	150 W	150 W
Port 2: LTE800	100 W	100 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	128 x 177 x 28 mm	28 x 177 x 28 mm
Connectors:	7/16 (f)	N (f)
Weight:	2 kg	2 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +65° C	-20 to +65° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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**Dual Band Combiner
TETRA / GSM900
68 - 470 MHz / 870 - 970 MHz**



Combines 2 RBSs into 1 antenna port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 TETRA Radio Base Station
- 1 GSM900 Radio Base Station

The combiner combines the 2 signals to the antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.



Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications				
Product number:	EG 100 9015	EG 100 9016	EG 100 9017	EG 602 0262
Passband:				
Port 1: TETRA	68 - 470 MHz	68 - 470 MHz	68 - 470 MHz	68 - 470 MHz
Port 2: GSM900	870 - 970 MHz	870 - 970 MHz	870 - 970 MHz	870 - 970 MHz
Insertion loss:				
Port 1: TETRA	≤ 0.1 dB	≤ 0.1 dB	≤ 0.1 dB	≤ 0.1 dB
Port 2: GSM900	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:				
Port 1: TETRA	250 W	250 W	250 W	250 W
Port 2: GSM900	250 W	250 W	250 W	250 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Intermodulation:				
IM3, 2 x 43 dBm:	≤ -110 dBm	≤ -110 dBm	≤ -110 dBm	≤ -110 dBm
Mechanical Specifications				
Dimensions (W x H x D):	128 x 177 x 28	128 x 177 x 28	128 x 177 x 32	128 x 177 x 32
Connectors:	N (f)	7/16 (f)	7/16 (f)	4.3.-10.0 (f)
Weight:	2 kg	2.6 kg	2.8 kg	2.8 kg
Environmental Specifications				
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%	Relative 5 - 95%	Relative 5 - 95%
Sealing:	IP65	IP65	IP68	IP68

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Made in Sweden

RevF



Dual Band Combiner DC - 520 MHz / 698 - 2700 MHz



Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0115	EG 602 0120	EG 602 0252
Passband:			
Port 1: Low band	DC - 520 MHz	DC - 520 MHz	DC - 520 MHz
Port 2: High band	698 - 2700 MHz	698 - 2700 MHz	698 - 2700 MHz
Insertion loss:			
Port 1: Low band - ANT	≤ 0.3 dB, typ 0,15dB	≤ 0.3 dB, typ 0,15dB	≤ 0.3 dB, typ 0,15dB
Port 2: High band - ANT	≤ 0.5 dB, typ 0.3dB	≤ 0.5 dB, typ 0.3dB	≤ 0.5 dB, typ 0.3dB
Input return loss:	> 16.0 dB, typ 20dB	> 16.0 dB, typ 20dB	> 16.0 dB, typ 20dB
Isolation between systems:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:			
Port 1: Low band	50 W	50 W	50 W
Port 2: High band	120 W	120 W	120 W
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -160 dBc	≤ -160 dBc	≤ -160 dBc
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications			
Dimensions (W x H x D):	235 x 30 x 120 mm	235 x 30 x 120 mm	235 x 30 x 120 mm
Connectors:	N (f)	7/16 (f)	4.3-10.0 (f)
Weight:	1.3 kg	1.3 kg	1.3 kg
Environmental Specifications			
Temp. range (normal operation):	-30 to +60° C	-30 to +60° C	-30 to +60° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP68	IP68

Egant reserves the right to change this product specification at any time without notice.

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Made in Sweden

RevH



Dual Band Combiner 68 - 500 MHz / 790 - 2700 MHz



Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 602 0072	EG 602 0259
Passband:		
Port 1: Low band	68 - 500 MHz	68 - 500 MHz
Port 2: High band	790 - 960 / 1710 - 2700 MHz	790 - 960 / 1710 - 2700 MHz
Insertion loss:		
Port 1: Low band - ANT	≤ 0.3 dB, typ 0.15dB	≤ 0.3 dB, typ 0.15dB
Port 2: High band - ANT	≤ 0.4 dB, typ 0.15dB	≤ 0.4 dB, typ 0.15dB
Input return loss:		
68 - 500 MHz	> 18.0 dB	> 18.0 dB
790 - 960 MHz	> 16.0 dB	> 16.0 dB
1710 - 1880 MHz	> 18.0 dB	> 18.0 dB
1920 - 2170 MHz	> 18.0 dB	> 18.0 dB
2500 - 2700MHz	> 16.0 dB	> 16.0 dB
Isolation between systems:		
Port 1: - ANT 790 - 2700MHz	≥ 50 dB	≥ 50 dB
Port 2: - ANT 68 - 400MHz	≥ 50 dB	≥ 50 dB
Port 2: - ANT >400 - 490MHz	≥ 30 dB	≥ 30 dB
Max input power/port:		
Port 1: Low band	< 300 W	< 300 W
Port 2: High band	< 500 W	< 500 W
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -117 dBm (160 dBc)	≤ -117 dBm (160 dBc)
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	265 x 55 x 120 mm	265 x 55 x 120 mm
Connectors:	7/16 (f)	4.3-10.0 (f)
Weight:	1.5 kg	1.5 kg
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP68	IP68

Egant reserves the right to change this product specification at any time without notice.

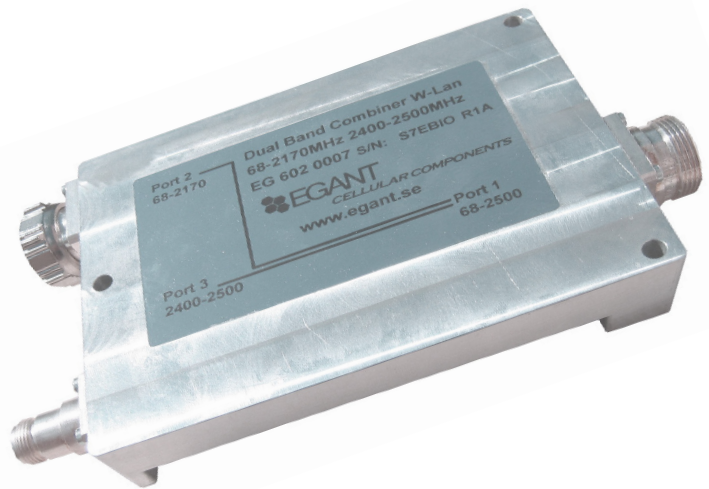
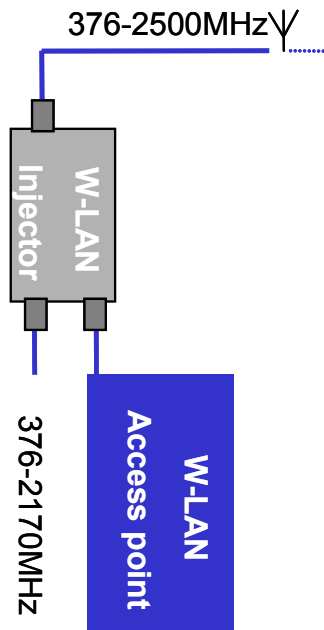
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Dual Band Combiner W-LAN

376 - 2500 MHz

TETRA, GSM900, GSM1800, UMTS,
W-LAN



Add W-LAN to your antenna system

Installing the dual band combiner W-LAN enables you to add W-LAN to your cellular antenna system. After installning the W-LAN combiner and an access point you are up and running with a high speed W-LAN system.

This is a highly important feature when designing shared antenna systems wishing to add W-LAN capability to your system.

Save money

The dual band combiner W-LAN offers additional benefits by opening up W-LAN capability to your existing antenna system.

The sleek and easily installed combiner has a broad-banded spectrum with low insertion loss and low intermodulation.

Technical Specifications for Dual Band Combiner W-LAN

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 100 9018	EG 100 9028	EG 602 0007
Passband:			
Port 1:	376 - 2170 MHz	376 - 2170 MHz	68 - 2500 MHz
Port 2:	2400 - 2500 MHz	2400 - 2500 MHz	68 - 2170 MHz
Port 3:			2400 - 2500 MHz
Input return loss:			
68 - 2170 MHz:	≥ 18 dB	≥ 18 dB	≥ 18 dB
2400 - 2500 MHz:	≥ 16 dB	≥ 16 dB	≥ 16 dB
Insertion loss:			
Port 2 - Port 1 (ANT):			
68 - 2170 MHz:	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)
Port 3 - Port 1 (ANT):			
2400 - 2500 MHz:	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)
Isolation: Port 2 - Port 3, Port 3 - Port 2	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	50 W avg. 0.5 kW peak	50 W avg. 0.5 kW peak	50 W avg. 0.5 kW peak
3 rd order intermodulation:			
IM3, 2 x 43 dBm:	< - 97 dBm (140 dBc)	< - 97 dBm (140 dBc)	< - 97 dBm (140 dBc)
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications			
Dimensions (W x H x D):	180 x 28 x 140 mm	180 x 32 x 140 mm	180 x 32 x 140 mm
Connectors:	N (f)	7/16 (f)	7/16 (f), 7/16 (m), N (f)
Weight:	1.6 kg	1.9 kg	1.9 kg
Environmental Specifications			
Temp. range (normal operation):	-35 to +70° C	-35 to +70° C	-35 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner **68 - 240 MHz / 376 - 480 MHz**



Combines FM + VHF + DAB and TETRA into one antenna port

This dual band combiner enables the connection of these two systems to the combiner:

- 1 FM + VHF + DAB Input
- 1 TETRA Radio Base Station

The combiner combines the two signals into one antenna port, or splits the signal into the two input systems in the receiving direction.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the inputs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the FM + VHF + DAB / TETRA Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0183	EG 602 0184	EG 602 0260	EG 602 0273
Passband:				
Port 1: FM + VHF + DAB	68 - 240 MHz	68 - 240 MHz	68 - 240 MHz	68 - 240 MHz
Port 2: TETRA	376 - 480 MHz	376 - 480 MHz	376 - 480 MHz	376 - 480 MHz
Insertion loss:	≤ 0.5 dB	≤ 0.5 dB	≤ 0.5 dB	≤ 0.5 dB
Input return loss:	> 16.0 dB	> 16.0 dB	> 16.0 dB	> 16.0 dB
Isolation between systems:	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Max input power/port:	≤ 40 W	≤ 40 W	≤ 40 W	≤ 40 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm	50 Ohm
DC-Bypass	Port 1 - Ant	Port 1 - Ant	Port 1 - Ant	Port 1 - Ant

Mechanical & Environmental Specifications

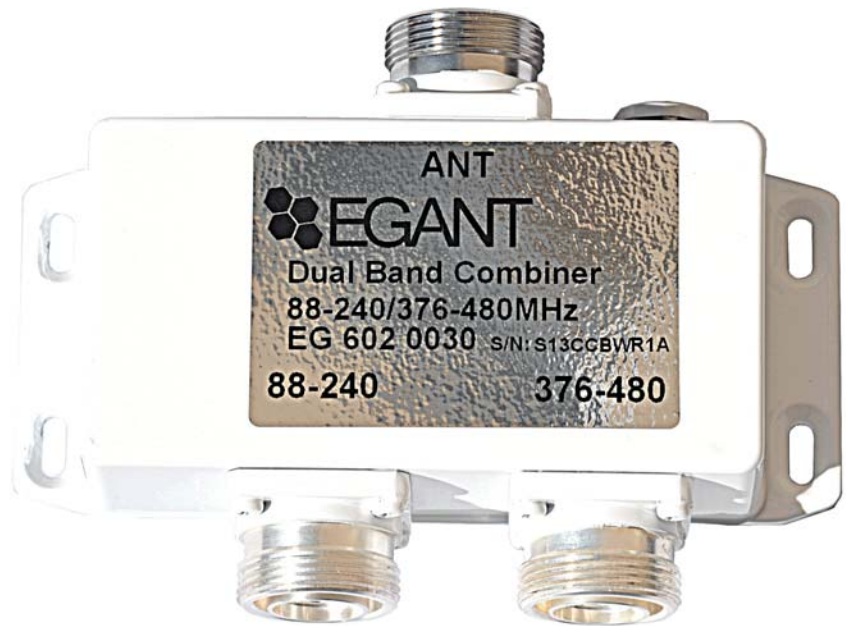
Dimensions (W x H x D):	95 x 23 x 75mm	95 x 23 x 75mm	95 x 42 x 75mm	95 x 42 x 75mm
Connectors:	N (f)	N (f)	4.3.10.0 (f)	4.3.10.0 (f)
Weight:	0.5 kg	0.5 kg	0.5 kg	0.5 kg
Sealing:	IP65	Indoor use	Indoor use	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner
FM + VHF + DAB / TETRA
80 - 240 MHz / 376 - 480 MHz



**Combines FM + VHF + DAB and TETRA
into one antenna port**

This dual band combiner enables the connection of these two systems to the combiner:

- 1 FM + VHF + DAB Input
- 1 TETRA Radio Base Station

The combiner combines the two signals into one antenna port, or splits the signal into the two input systems in the receiving direction.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the inputs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the FM + VHF + DAB / TETRA Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0030	EG 602 0038
Passband:		
Port 1: FM + VHF + DAB	80 - 240 MHz	80 - 240 MHz
Port 2: TETRA	376 - 480 MHz	376 - 480 MHz

Insertion loss:

Port 1: 80 - 108 MHz	≤ 0.5 dB	≤ 0.5 dB
Port 1: 108 - 174 MHz	≤ 0.5 dB	≤ 0.5 dB
Port 1: 174 - 240 MHz	≤ 0.5 dB	≤ 0.5 dB
Port 2: TETRA	≤ 0.5 dB	≤ 0.5 dB

Input return loss:

> 18.0 dB	> 18.0 dB
-----------	-----------

Isolation between systems:

Port 1 - 2: 80 - 108 MHz, 108 - 240 MHz	> 40 dB	> 40 dB
Port 2 - 1: 376 - 480 MHz	> 40 dB	> 40 dB

Max input power/port:

Port 1:	> 20 W	> 20 W
Port 2:	> 20 W	> 20 W
Impedance in/out:	50 Ohm	50 Ohm
DC-Bypass	Port1 - Ant	Port1 - Ant

Mechanical & Environmental Specifications

Dimensions (W x H x D):	118 x 119 x 37 mm	110 x 115 x 37 mm
Connectors:	7/16 (f)	7/16 (f)
Weight:	1.7 kg	1.4 kg
Sealing:	IP67	Indoor use

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner 80- 960 MHz / 1710 - 2700 MHz



Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0108	EG 602 0111	EG 602 0261
Passband:			
Port 1: Low band	80 - 960 MHz	80 - 960 MHz	80 - 960 MHz
Port 2: High band	1710 - 2700 MHz	1710 - 2700 MHz	1710 - 2700 MHz
Insertion loss:			
Port 1: 80 - 960 MHz- ANT	≤ 0.3 dB, typ 0,2 dB	≤ 0.3 dB, typ 0,2 dB	≤ 0.3 dB, typ 0,2 dB
Port 2: 1710 - 2700 MHz - ANT	≤ 0.5 dB, typ 0,3 dB	≤ 0.5 dB, typ 0,3 dB	≤ 0.5 dB, typ 0,3 dB
Input return loss:			
80 - 960 MHz	> 18.0 dB	> 18.0 dB	> 18.0 dB
1710 - 2700 MHz	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Intermodulation:			
IM3, 2x43 dBm:	<-150 dBc	<-150 dBc	<-150 dBc
DC by pass Port 1 - Ant	2A max	2A max	2A max
Max input power/port:			
Port 1: Low band	< 60 W	< 60 W	< 60 W
Port 2: High band	< 60 W	< 60 W	< 60 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications			
Dimensions (W x H x D):	125 x 32 x 110 mm	125 x 68 x 110 mm	125 x 32 x 110 mm
Connectors:	7/16 (f)	7/16 (f)	4.3-10.0 (f)
Weight:	1.5 kg	3.2 kg	1.3 kg
Environmental Specifications			
Temp. range (normal operation):	-35 to +55° C	-35 to +55° C	-35 to +55° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner **80- 960 MHz / 1710 - 2700 MHz**



Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0309	EG 602 0310
Passband:		
Port 1: Low band	80 - 960 MHz	80 - 960 MHz
Port 2: High band	1710 - 2700 MHz	1710 - 2700 MHz
Insertion loss:	≤ 0.3 dB (0,05 dB typical)	≤ 0.3 dB (0,05 dB typical)
Input return loss:	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB
Intermodulation: IM3, 2x43 dBm:	< -153 dBc, typ 163dBc	< -153 dBc, typ 163dBc
Max input power/port:	> 200 W, peak 1000W	> 200 W, peak 1000W
Impedance in/out:	50 Ohm	50 Ohm

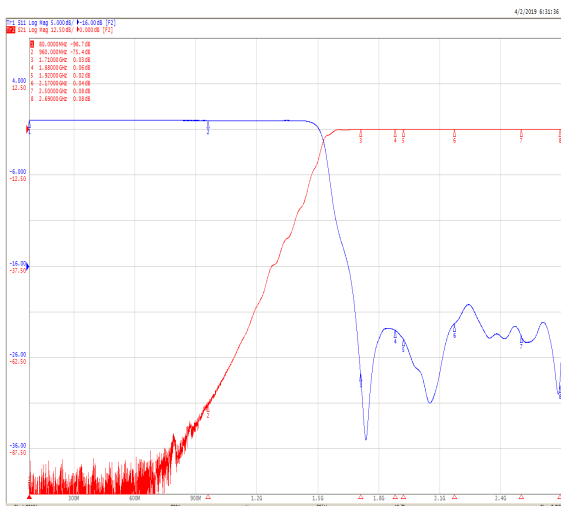
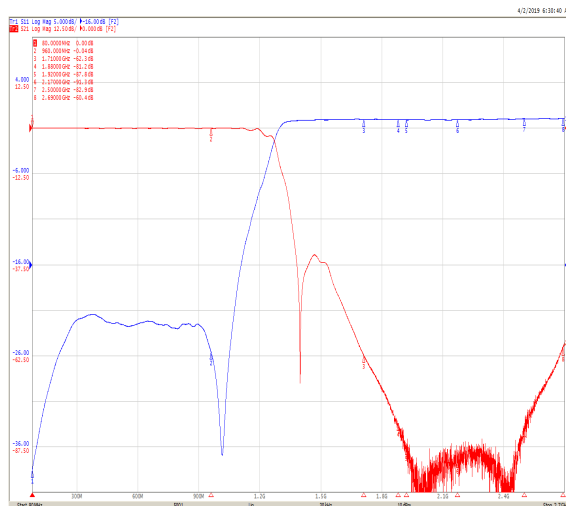
Mechanical Specifications

Dimensions (W x H x D):	223 x 50 x 104 mm	223 x 50 x 104 mm
Connectors:	7/16 (f)	4.3-10 (f)
Weight:	1.8 kg	1.8 kg

Environmental Specifications

Temp. range (normal operation):	-20 to 60° C	-20 to 60° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.



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Dual Band Combiner
155 - 500 MHz / GPS

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0049
Passband:	
Port 1: Low band	155 - 500 MHz
Port 2: High band	1575 - 1576 MHz

Insertion loss:	
Port 1: Low band - ANT	≤ 0.2 dB
Port 2: High band - ANT	≤ 0.2 dB

Input return loss:	
155 - 380 MHz	> 16.0 dB
380 - 500 MHz	> 20.0 dB
1575 - 1576 MHz	> 16.0 dB

Isolation between systems:	
Port 1: - Port2	≥ 50 dB
Port 2: - Port1	≥ 50 dB

Max input power/port:	
Port 1: Low band	< 300 W
Port 2: High band	< 20 W

Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)
DC by-pass Port 2 - ANT	1A, max

Impedance in/out:	50 Ohm
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Mechanical Specifications

Dimensions (W x H x D):	265 x 55 x 120 mm
Connectors:	7/16 (f)
Weight:	1.5 kg

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner

376 - 500 MHz / 1920 - 2170 MHz



Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0045	EG 602 0046
Passband:		
Port 1: Low band	376 - 500 MHz	376 - 500 MHz
Port 2: High band	1920 - 2170 MHz	1920 - 2170 MHz
Insertion loss:		
Port 1: Low band - ANT	≤ 0.3 dB	≤ 0.3 dB
Port 2: High band - ANT	≤ 0.3 dB	≤ 0.3 dB
Input return loss:		
376 - 500 MHz	> 18.0 dB	> 18.0 dB
1920 - 2170 MHz	> 18.0 dB	> 18.0 dB
Isolation between systems:		
Port 1: - ANT	≥ 30 dB	≥ 30 dB
Port 2: - ANT	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: Low band	< 300 W	< 300 W
Port 2: High band	< 500 W	< 500 W
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
DC by-pass Port 2: UMTS - ANT	1A, max	1A, max
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	242 x 31 x 84 mm	242 x 31 x 84 mm
Connectors:	N (f)	7/16 (f)
Weight:	1.5 kg	1.5 kg
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

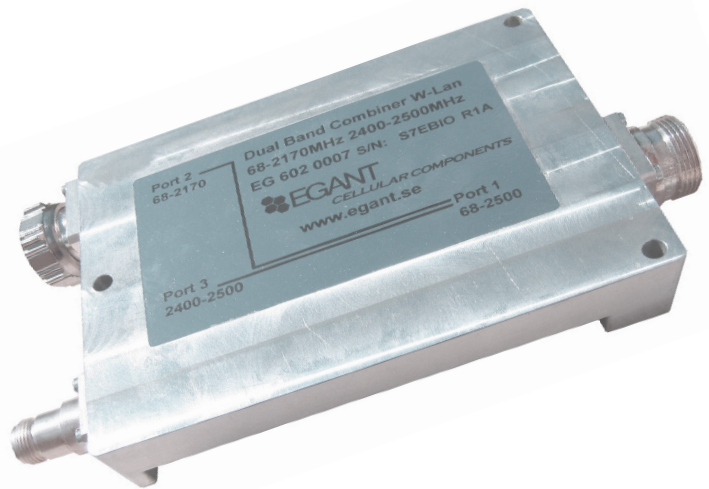
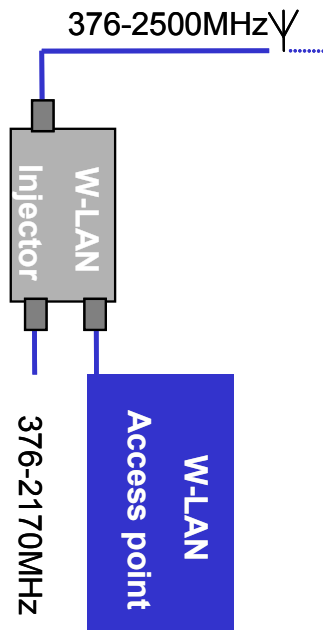
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Dual Band Combiner W-LAN

376 - 2500 MHz

TETRA, GSM900, GSM1800, UMTS,
W-LAN



Add W-LAN to your antenna system

Installing the dual band combiner W-LAN enables you to add W-LAN to your cellular antenna system. After installning the W-LAN combiner and an access point you are up and running with a high speed W-LAN system.

This is a highly important feature when designing shared antenna systems wishing to add W-LAN capability to your system.

Save money

The dual band combiner W-LAN offers additional benefits by opening up W-LAN capability to your existing antenna system.

The sleek and easily installed combiner has a broad-banded spectrum with low insertion loss and low intermodulation.

Technical Specifications for Dual Band Combiner W-LAN

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 100 9018	EG 100 9028	EG 602 0007
Passband:			
Port 1:	376 - 2170 MHz	376 - 2170 MHz	68 - 2500 MHz
Port 2:	2400 - 2500 MHz	2400 - 2500 MHz	68 - 2170 MHz
Port 3:			2400 - 2500 MHz
Input return loss:			
68 - 2170 MHz:	≥ 18 dB	≥ 18 dB	≥ 18 dB
2400 - 2500 MHz:	≥ 16 dB	≥ 16 dB	≥ 16 dB
Insertion loss:			
Port 2 - Port 1 (ANT):			
68 - 2170 MHz:	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)
Port 3 - Port 1 (ANT):			
2400 - 2500 MHz:	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)	≤ 1.0 dB (0.5 typ.)
Isolation: Port 2 - Port 3, Port 3 - Port 2	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	50 W avg. 0.5 kW peak	50 W avg. 0.5 kW peak	50 W avg. 0.5 kW peak
3 rd order intermodulation:			
IM3, 2 x 43 dBm:	< - 97 dBm (140 dBc)	< - 97 dBm (140 dBc)	< - 97 dBm (140 dBc)
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications			
Dimensions (W x H x D):	180 x 28 x 140 mm	180 x 32 x 140 mm	180 x 32 x 140 mm
Connectors:	N (f)	7/16 (f)	7/16 (f), 7/16 (m), N (f)
Weight:	1.6 kg	1.9 kg	1.9 kg
Environmental Specifications			
Temp. range (normal operation):	-35 to +70° C	-35 to +70° C	-35 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65

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Dual Band Combiner
UMTS/LTE
376-2170MHz / 2500-2690 MHz

Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0074	EG 602 0076
Passband:		
Port 1: Low band	376 - 2170 MHz	376 - 2170 MHz
Port 2: High band	2500 - 2690 MHz	2500 - 2690 MHz
Insertion loss:		
Port 1: Low band - ANT	≤ 0.3 dB, typ <0.15 dB	≤ 0.3 dB, typ <0.15 dB
Port 2: High band - ANT	≤ 0.3 dB, typ <0.15 dB	≤ 0.5 dB, typ <0.25 dB
Input return loss:		
1920- 2170 MHz	> 18.0 dB	> 17.5 dB
2500 - 2690 MHz	> 18.0 dB	> 17.5 dB
Isolation between systems:		
Port 1: - ANT	≥ 50 dB	≥ 50 dB
Port 2: - ANT	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: Low band	< 400 W	< 60 W
Port 2: High band	< 100 W	< 60 W
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -140 dBc	≤ -140 dBc
Impedance in/out:		
	50 Ohm	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	265 x 55 x 120 mm	140 x 35 x 138 mm
Connectors:	7/16 (f)	N (f)
Weight:	1.5 kg	1.2 kg

Environmental Specifications

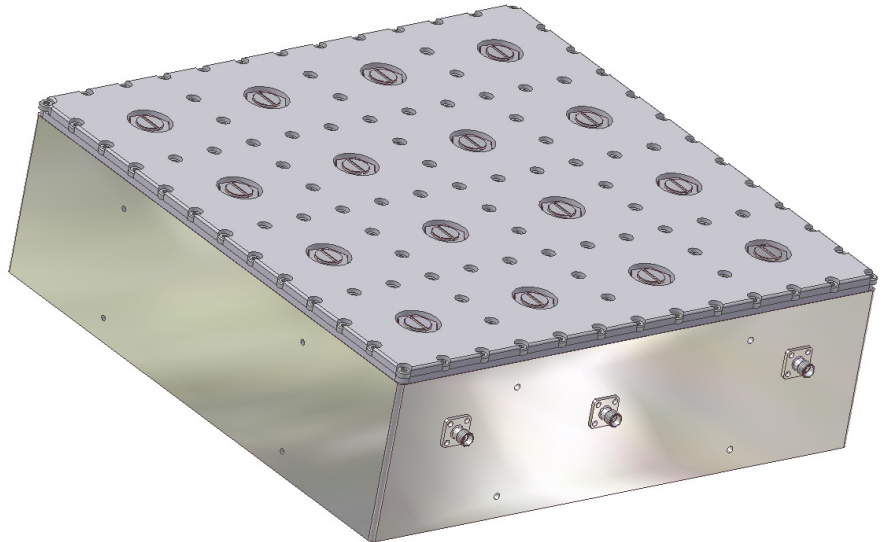
Temp. range (normal operation):	-35 to +60° C	-35 to +60° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP67	IP67

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Dual Band Combiner
380 - 395 MHz / 410 - 425 MHz
TETRA Public Safety
TETRA Public Services



Reduces cost

By utilizing the Egant Dual Band Combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 2 RBSs into 1 Antenna Port

This Dual Band Combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 TETRA Public Safety System
- 1 TETRA Public Services System

The Combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 602 0023	EG 602 0024
Passband:		
Port 1: TETRA - Public Safety	380 - 395 MHz	380 - 395 MHz
Port 2: TETRA - Public Services	410 - 425 MHz	410 - 425 MHz
Insertion loss:		
Port 1: TETRA - Public Safety	≤ 1.2 dB	≤ 1.2 dB
Port 2: TETRA - Public Services	≤ 1.2 dB	≤ 1.2 dB
Input return loss:	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: TETRA - Public Safety	< 60W	< 60W
Port 2: TETRA - Public Services	< 60W	< 60W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications		
Dimensions (W x H x D):	150 x 150 x 110 mm	150 x 150 x 110 mm
Connectors:	N (f)	7/16 (f)
Weight:	2.5 kg	2.5 kg
Environmental Specifications		
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C
Sealing:	Indoor	Indoor

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Dual Band Combiner
380 - 395 MHz / 440 - 450 MHz
TETRA Public Safety
TETRA Public Services

Combines 2 RBSs into 1 Antenna Port

This Dual Band Combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 TETRA Public Safety System
- 1 TETRA Public Services System

The Combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing the Egant Dual Band Combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0191	EG 602 0281	EG 602 0283
Passband:			
Port 1:	380 - 395 MHz	380 - 395 MHz	380 - 395 MHz
Port 2:	440 - 450 MHz	440 - 450 MHz	440 - 450 MHz
Insertion loss:	≤ 1.3 dB, (typ 0.6dB)	≤ 1.3 dB, (typ 0.6dB)	≤ 1.2 dB, (typ 0.6dB)
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB	≥ 70 dB, typ 80dB
Max input power/port:	60W	60W	60W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications			
Dimensions (W x H x D):	150 x 150 x 110 mm	150 x 150 x 110 mm	150 x 150 x 110 mm
Connectors:	7/16 (f)	4.3-10.0 (f)	4.3-10.0 (f)
Weight:	2.0 kg	2.0 kg	2.0 kg
Environmental Specifications			
Temp. range (normal operation):	-20 to +55° C	-20 to +55° C	-20 to +55° C
Sealing:	Indoor	Indoor	Indoor

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Dual Band Combiner

380 - 395 MHz

442,975 - 448,975 MHz

Combines 2 RBSs into 1 Antenna Port

This Dual Band Combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 TETRA Public Safety System
- 1 TETRA Public Services System

The Combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing the Egant Dual Band Combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0176
Passband:	
Port 1:	380 - 395 MHz
Port 2:	442,975 - 448,975 MHz
Insertion loss:	
Port 1:	≤ 1.2 dB, (Typ 0.7dB)
Port 2: TETRA	≤ 1.2 dB, (Typ 0.7dB)

Input return loss:	> 16.0 dB
Isolation between systems:	≥ 40 dB

Max input power/port:	
Port 1: TETRA - Public Safety	< 60 W
Port 2: TETRA - Public Services	< 60 W

Impedance in/out:	50 Ohm
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Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	150 x 150 x 110 mm
Connectors:	N (f)
Weight:	2.5 kg

Environmental Specifications

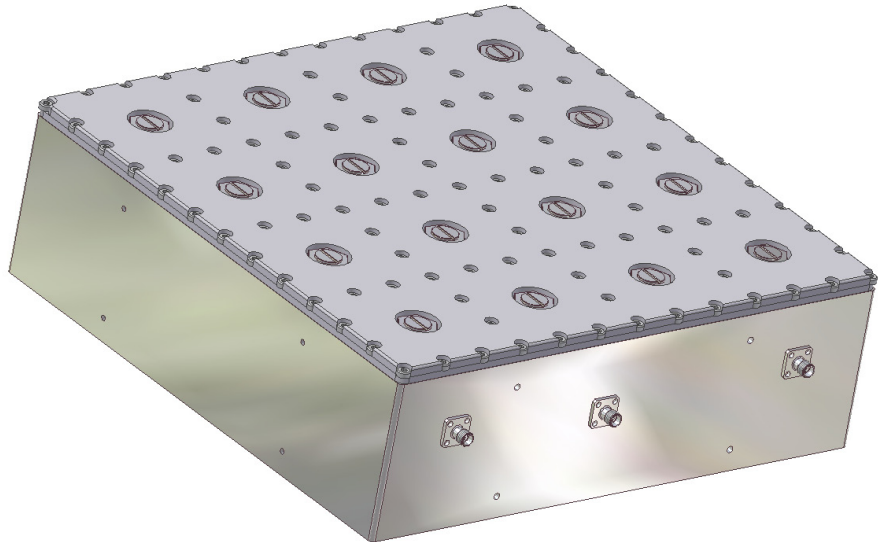
Temp. range (normal operation):	-5 to +65° C
Sealing:	Indoor

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Dual Band Combiner
380 - 395 MHz / 450 - 470 MHz
TETRA Public Safety
TETRA Public Services



Reduces cost

By utilizing the Egant Dual Band Combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 2 RBSs into 1 Antenna Port

This Dual Band Combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 TETRA Public Safety System
- 1 TETRA Public Services System

The Combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0094
Passband:	
Port 1: TETRA - Public Safety	380 - 395 MHz
Port 2: TETRA - Public Services	450 - 470 MHz
Insertion loss:	
Port 1: TETRA - Public Safety	≤ 1.2 dB, (Typ 0.7dB)
Port 2: TETRA - Public Services	≤ 1.2 dB, (Typ 0.7dB)
Input return loss:	> 18.0 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	
Port 1: TETRA - Public Safety	< 60 W
Port 2: TETRA - Public Services	< 60 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	150 x 150 x 110 mm
Connectors:	N (f)
Weight:	2.5 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Sealing:	Indoor

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Dual Band Combiner 790 - 862 MHz / 880 - 960 MHz



Combines 2 RBSs into 1 antenna port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 LTE 800 Radio Base Station
- 1 GSM900 Radio Base Station

The combiner combines the 2 signals to the antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0097	EG 602 0112	EG 602 0228
Passband:			
Port 1: LTE800	790 - 862 MHz	790 - 862 MHz	790 - 862 MHz
Port 2: GSM900	880 - 960 MHz	880 - 960 MHz	880 - 960 MHz
Insertion loss:			
Port 1: LTE800	≤ 0.45 dB, typ 0.2dB	≤ 0.45 dB, typ 0.2dB	≤ 0.45 dB, typ 0.2dB
Port 2: GSM900	≤ 0.45 dB, typ 0.2dB	≤ 0.45 dB, typ 0.2dB	≤ 0.45 dB, typ 0.2dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:			
Port 1: LTE800	200 W	200 W	200 W
Port 2: GSM900	200 W	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications			
Dimensions (W x H x D):	200 x 60 x 185 mm	200 x 60 x 185 mm	200 x 60 x 185 mm
Connectors:	7/16 (f)	N (f)	4.3-10.0 (f)
Weight:	3.2 kg	3.1 kg	3.1 kg
Environmental Specifications			
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65

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Dual Band Combiner

790 - 1000 MHz, 1710 - 2170 MHz

Reduces cost

By utilizing the Egant Dual Band Combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 2 RBSs into 1 Antenna Port

This Dual Band Combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 800/900 Radio Base Station
- 1 1800/2100 Radio Base Station

The Combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0110
Passband:	
Port 1: 800/900	790 - 1000 MHz
Port 2: 1800/2100	1710 - 2170 MHz
Insertion loss:	
Port 1: 800/900	$\leq 0.3\text{dB}$, typ 0.15dB
Port 2: 1800/2100	$\leq 0.5\text{dB}$, typ 0.25dB
Input return loss:	$> 18.0\text{ dB}$
Isolation between systems:	$\geq 50\text{ dB}$
Max input power/port:	
Port 1: 800/900	$< 250\text{W}$
Port 2: 1800/2100	$< 150\text{W}$
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	$\leq -117\text{ dBm}$ (160 dBc)

Mechanical Specifications

Dimensions (W x H x D):	117 x 215 x 50 mm
Connectors:	7/16 (f)
Weight:	1.5 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner 800 - 1000 MHz, 1700 - 2170 MHz



Reduces cost

By utilizing the Egant Dual Band Combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 2 RBSs into 1 Antenna Port

This Dual Band Combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 GSM800 / GSM900 Radio Base Station
- 1 CDMA / GSM1800 Radio Base Station or
- 1 GSM1900 / UMTS Radio Base Station

The Combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

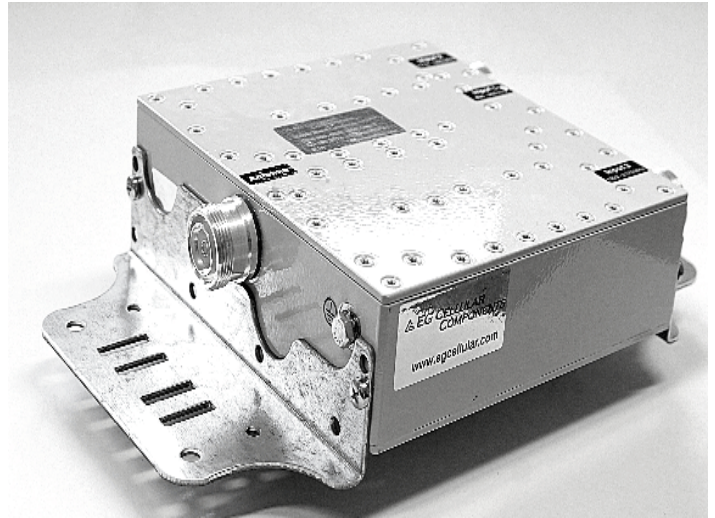
Electrical Specifications			
Product number:	EG 100 9013	EG 100 9014	EG 602 0227
Passband:			
Port 1: GSM800 / GSM900 / CDMA	800 - 1000 MHz	800 - 1000 MHz	800 - 1000 MHz
Port 2: GSM1800 / GSM1900 / UMTS	1700 - 2170 MHz	1700 - 2170 MHz	1700 - 2170 MHz
Insertion loss:			
Port 1: GSM800 / GSM900 / CDMA	≤ 0.15 dB	≤ 0.15 dB	≤ 0.15 dB
Port 2: GSM1800 / GSM1900 / UMTS	≤ 0.25 dB	≤ 0.25 dB	≤ 0.25 dB
Input return loss:	> 21.0 dB	> 21.0 dB	> 21.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:			
Port 1: GSM800 / GSM900 / CDMA	< 250W	< 250W	< 250W
Port 2: GSM1800 / GSM1900 / UMTS	< 150W	< 150W	< 150W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications			
Dimensions (W x H x D):	117 x 215 x 50 mm	117 x 215 x 50 mm	117 x 215 x 50 mm
Connectors:	7/16 (f)	N (f)	4.3.10.0 (f)
Weight:	1.5 kg	1.5 kg	1.5 kg
Environmental Specifications			
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner GSM900, GSM1800



Reduces cost

By utilizing the Egant dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 2 RBSs into 1 antenna port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner:

- 1 GSM900 Radio Base Station
- 1 GSM1800 Radio Base Station

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0034
Passband:	
Port 1: GSM900	880 - 960 MHz
Port 2: GSM1800	1710 - 1880 MHz
Insertion loss:	
Port 1: GSM900 - ANT	≤ 0.2 dB (0.1 dB typ)
Port 2: GSM1800 - ANT	≤ 0.4 dB (0.2 dB typ)
Input return loss:	> 18.0 dB
Isolation between systems:	≥ 50 dB
Rejection 1920 - 2170 MHz (UMTS):	> 65.0 dB
Max input power/port:	
Port 1: GSM900	100 W
Port 2: GSM1800	100 W

Impedance in/out: 50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	195 x 185 x 55 mm
Connectors:	7/16 (f)
Weight:	4 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP65

Egant reserves the right to change this product specification at any time without notice.

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Dual Band Combiner

**890-960 MHz / 1710-1880, 1920-2170,
2600-2700MHz MHz**

Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0096
Passband:	
Port 1: Low band	890 - 960 MHz
Port 2: High band	1710 - 1880 MHz 1920 - 2170 MHz 2600- 2700 MHz
Insertion loss:	
Port 1: Low band - ANT	≤ 0.3 dB, typ 0,15dB
Port 2: High band - ANT	≤ 0.4 dB, typ 0,15dB
Input return loss:	> 16.0 dB
Isolation between systems:	≥ 50 dB
Max input power/port:	
Port 1: Low band	< 150 W
Port 2: High band	< 150 W
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)
DC by-pass Port 2: UMTS - ANT	1A, max
Impedance in/out:	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	265 x 55 x 120 mm
Connectors:	7/16 (f)
Weight:	2.5 kg

Environmental Specifications

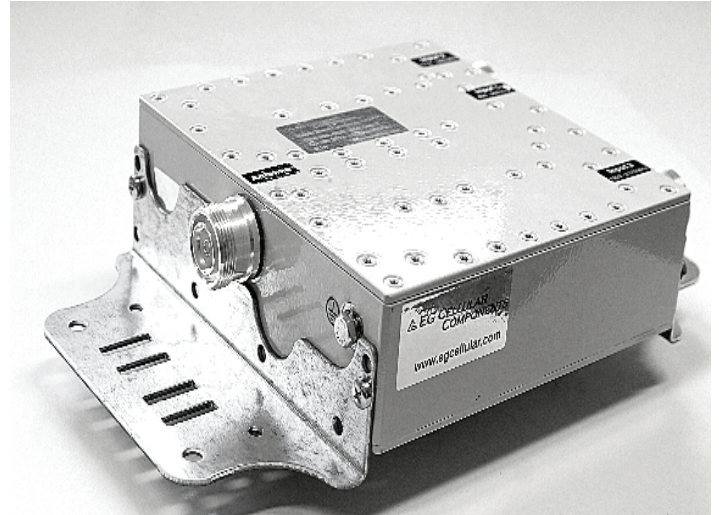
Temp. range (normal operation):	-40 to +60° C
Humidity:	Relative 5 - 100%
Sealing:	IP66

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Triple Band Combiner/Dual Band Combiner UMTS, GSM1800, GSM900 / GSM1800, UMTS



Reduces cost

By utilizing our triple band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Combines 3 RBSs into 1 antenna port

This triple band combiner enables the connection of 3 Radio Base Stations to the combiner:

- 1 GSM900 Radio Base Station
- 1 GSM1800 Radio Base Station
- 1 UMTS Radio Base Station

The combiner combines the 3 signals to 1 antenna port, or splits the signal to the 3 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Dual Band Combiner - combines 2 RBSs into 1 antenna port

The dual band combiner enables you to connect 2 Radio Base Stations to the combiner:

- 1 GSM1800 Radio Base Station
- 1 UMTS Radio Base Station

Technical Specifications for the Triple Band Combiner/Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 100 9012	EG 100 9009
Passband:		
Port 1: GSM900	698 - 960 MHz	
Port 2: GSM1800	1710 - 1880 MHz	1710 - 1880 MHz
Port 3: UMTS	1920 - 2170 MHz	1920 - 2170 MHz
Insertion loss:		
Port 1: GSM900 - ANT	≤ 0.20 dB	
Port 2: GSM1800 - ANT	≤ 0.30 dB	≤ 0.40 dB
Port 3: UMTS - ANT	≤ 0.45 dB	≤ 0.45 dB
Input return loss:	> 21.0 dB	> 20.0 dB
Isolation between systems:	≥ 50 dB	≥ 50 dB
Max input power/port:		
Port 1: GSM900	< 200 W	
Port 2: GSM1800	< 200 W	< 200 W
Port 3: UMTS	< 100 W	< 100 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153dBc)
DC by-pass between all inputs to output:	1A, max, per input	1A, max, per input
Mechanical Specifications		
Dimensions (W x H x D):	230 x 200 x 555 mm	245 x 210 x 50 mm
Connectors:	7/16 (f)	7/16 (f)
Weight:	3.6 kg	3.6 kg
Environmental Specifications		
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP66	IP66

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Dual Band Combiner

1710-2200MHz / 2490-2700 MHz

Combines 2 RBSs into 1 Antenna Port

This dual band combiner enables the connection of 2 Radio Base Stations to the combiner.

The combiner combines the 2 signals to 1 antenna port, or splits the signal to the 2 RBSs in the receiving direction.

This is a highly desirable function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Reduces cost

By utilizing our dual band combiner you will reduce the cost of antennas, feeders and installation.

It eliminates the cost inefficient need to make one antenna installation for each system. By simply connecting the RBSs into the combiner it will immediately render you all the benefits of antenna sharing.

Double unit

The double unit consists of a combination of the two single units, EG 602 0243 and EG 602 0244

Technical Specifications for the Dual Band Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0243	EG 602 0244	EG 602 0245
Model:	Single unit	Single unit	Double unit
Port 1: Low band	1710 - 2200 MHz	1710 - 2200 MHz	1710 - 2200 MHz
Port 2: High band	2490 - 2700 MHz	2490 - 2700 MHz	2490 - 2700 MHz
Insertion loss:	≤ 0.35 dB	≤ 0.35 dB	≤ 0.35 dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between systems:	≥ 45 dB	≥ 45 dB	≥ 45 dB
Max input power/port:	< 300 W	< 300 W	< 300 W
Intermodulation: IM3, 2 x 43 dBm:	≤ -155 dBc	≤ -155 dBc	≤ -155 dBc
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
DC stop:	Port 1	Port 2	Port 1 EG 602 0243 Port 2 EG 602 0244
Mechanical Specifications			
Dimensions (W x H x D):	102 x 52 x 126 mm	102 x 52 x 126 mm	102 x 110 x 126 mm
Connectors:	4.3-10.0(f)	4.3-10.0(f)	4.3-10.0(f)
Weight:	2 kg	2 kg	4 kg
Environmental Specifications			
Temp. range (normal operation):	-40 to +65° C	-40 to +65° C	-40 to +65° C
Lightning Protection:	± 10 kA, 8/20 μ s impulse ± 5 kA, 10/350 μ s impulse	± 10 kA, 8/20 μ s impulse ± 5 kA, 10/350 μ s impulse	± 10 kA, 8/20 μ s impulse ± 5 kA, 10/350 μ s impulse
Sealing:	IP67	IP67	IP67

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Duplex Filter

www.egant.se

Frequency range

Duplex Filter

380-385, 390-395MHz
380-385, 390-395MHz
380-385, 390-395MHz
380-385, 390-395MHz
380-385, 390-395MHz
415-420, 425-430MHz
703-713, 758-768MHz
703-713, 758-768MHz
703-713, 758-768MHz
791-821, 832-862MHz
791-821, 832-862MHz
791-821, 832-862MHz
791-821, 832-862MHz
791-821, 832-862MHz
873-880, 918-924,8MHz
873-880, 918-924,8MHz
876-880, 921-925MHz
880-915, 925-960MHz
880-915, 925-960MHz
880-915, 925-960MHz
880-915, 925,5-960MHz
880-915, 925,5-960MHz
890-915, 935-960MHz
890-915, 935-960MHz
890-915, 935-960MHz
890-915, 935-960MHz
890-915, 935-960MHz
890-915, 935-960MHz

Description

Duplex Filter Tetra
Duplex Filter Tetra
Duplex Filter Tetra
Duplex Filter Tetra
Duplex Filter Tetra
Duplex Filter Tetra
Duplex Filter 700
Duplex Filter 700
Duplex Filter 700
Duplex Filter 800
Duplex Filter 800
Duplex Filter 800
Duplex Filter 800
Duplex Filter 800
Duplex GSM-R
Duplex GSM-R
Duplex GSM-R
Duplex Filter 900
Duplex Filter 900
Duplex Filter 900
Duplex Filter 900 High Q
Duplex Filter 900 High Q
Duplex Filter 900
Duplex Filter 900
Duplex Filter 900
Duplex Filter 900
Duplex Filter 900
Duplex Filter 900

Connector

N(f)
7/16(f)
7/16(f)
4.3-10(f)
SMA(f)
SMA(f)
7/16(f)
4.3-10(f)
4.3-10(f)
7/16(f)
4.3-10(f)
7/16-SMA
N(f)
7/16(f)
4.3-10(f)
N(f)
N(f)
SMA(f)
7/16(f)
4.3-10(f)
7/16(f)
7/16(f)
4.3-10(f)
N(f)
SMA(f)
7/16(f)

Ordering number

EG 602 0084
EG 602 0020
EG 602 0021
EG 602 0246
EG 602 0293
EG 602 0037
EG 602 0274
EG 602 0275
EG 602 0276
EG 602 0192
EG 602 0265
EG 602 0215
EG 602 0291
EG 602 0148
EG 602 0272
EG 602 0149
EG 602 0079
EG 602 0087
EG 602 0091
EG 602 0267
EG 602 0271
EG 602 0090
EG 602 0266
EG 602 0088
EG 602 0089
EG 602 0090



Duplex Filter

www.egant.se

1710-1785, 1805-1880MHz	Duplex Filter 1800	N(f)	EG 602 0055
1710-1785, 1805-1880MHz	Duplex Filter 1800	7/16(f)	EG 602 0193
1710-1785, 1805-1880MHz	Duplex Filter 1800	4.3-10(f)	EG 602 0268
1920-1980, 2110-2170MHz	Duplex Filter 2100	N(f)	EG 602 0056
1920-1980, 2110-2170MHz	Duplex Filter 2100	7/16(f)	EG 602 0171
1920-1980, 2110-2170MHz	Duplex Filter 2100	7/16(f)	EG 602 0194
1920-1980, 2110-2170MHz	Duplex Filter 2100	4.3-10(f)	EG 602 0269
2500-2570, 2620-2690MHz	Duplex Filter 2600	N(f)	EG 602 0104
2500-2570, 2620-2690MHz	Duplex Filter 2600	7/16(f)	EG 602 0195
2500-2570, 2620-2690MHz	Duplex Filter 2600	7/16(f)	EG 602 0103
2500-2570, 2620-2690MHz	Duplex Filter 2600	N(f)	EG 602 0104
2500-2570, 2620-2690MHz	Duplex Filter 2600	SMA(f)	EG 602 0105
2500-2570, 2620-2690MHz	Duplex Filter 2600	N(f)	EG 602 0106
2500-2570, 2620-2690MHz	Duplex Filter 2600	4.3-10(f)	EG 602 0270



Duplexer EGSM900

880 - 915 MHz

925 - 960 MHz



This Duplexer combines/splits the EGSM900 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for EGSM900 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications				
Product number:	EG 602 0079	EG 602 0087	EG 602 0091	EG 602 0214
Passband:				
Port 1: RX	880 - 915 MHz	880 - 915 MHz	880 - 915 MHz	880 - 915 MHz
Port 2: TX	925 - 960 MHz	925 - 960 MHz	925 - 960 MHz	925 - 960 MHz
Insertion loss:				
Port 1: RX	≤ 0.9 dB, typ 0.5dB	≤ 0.9 dB, typ 0.5dB	≤ 0.9 dB, typ 0.5dB	≤ 1.2 dB, typ 0.7dB
Port 2: TX	≤ 1.1 dB, typ 0.5dB	≤ 1.1 dB, typ 0.5dB	≤ 1.1 dB, typ 0.5dB	≤ 1.2 dB, typ 0.7dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between TX/RX:	≥ 50 dB	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	200 W	200 W	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Intermodulation:				
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications				
Dimensions (W x H x D):	180 x 60 x 110 mm	180 x 60 x 100 mm	180 x 60 x 130 mm	180 x 60 x 130 mm
Connectors:	N (f)	SMA (f)	7/16 (f)	7/16 (f) - 7/16(m)
Weight:	1.5 kg	1.5 kg	1.6 kg	1.6 kg
Environmental Specifications				
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	Indoor use	Indoor use	Indoor use	Indoor use

Egant reserves the right to change this product specification at any time without notice.

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Duplexer GSM900

890 - 915 MHz

925.5 - 960 MHz

This Duplexer combines/splits the GSM900 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for GSM900 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0267	EG 602 0271
Passband:		
Port 1: RX	880 - 915 MHz	880 - 915 MHz
Port 2: TX	925.5 - 960 MHz	925.5 - 960 MHz
Insertion loss:		
890 - 915 MHz	≤ 1.2 dB, typ 0.6dB	≤ 1.2 dB, typ 0.6dB
925.5 - 960 MHz	≤ 4.7 dB, typ 1.0dB	≤ 4.7 dB, typ 1.0dB
Input return loss:	> 16.0 dB	> 16.0 dB
Isolation between TX/RX:	≥ 50 dB	≥ 50 dB
Max input power/port:	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)

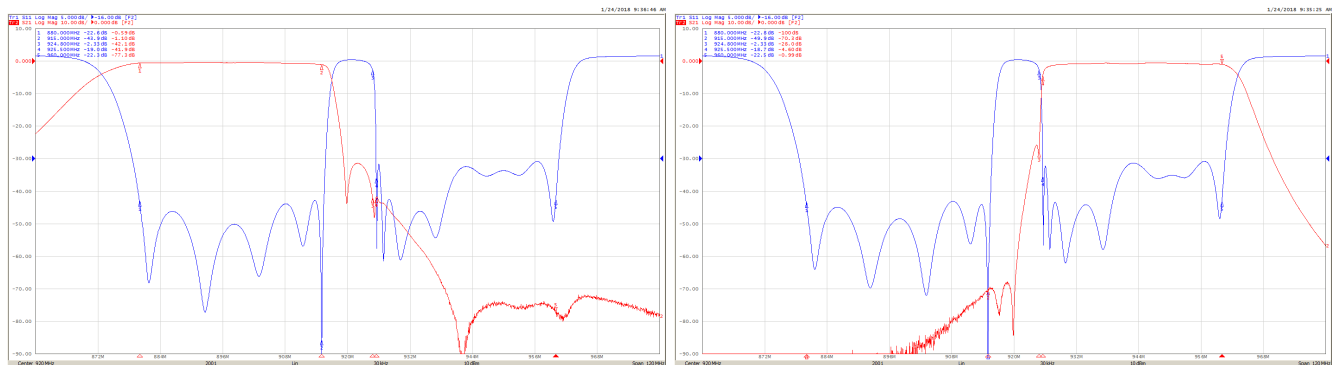
Mechanical Specifications

Dimensions (W x H x D):	300 x 48 x 220 mm	300 x 48 x 220 mm
Connectors:	4.3-10.0 (f)	7/16 (f)
Weight:	2.5 kg	2.5 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +55° C	-20 to +55° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%
Sealing:	Indoor use	Indoor use

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Made in Sweden

RevB



Duplexer GSM900

890 - 915 MHz

935 - 960 MHz



This Duplexer combines/splits the GSM900 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for GSM900 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0088	EG 602 0089	EG 602 0090
Passband:			
Port 1: RX	890 - 915 MHz	890 - 915 MHz	890 - 915 MHz
Port 2: TX	935 - 960 MHz	935 - 960 MHz	935 - 960 MHz
Insertion loss:	≤ 1.2 dB, typ 0.7dB	≤ 1.2 dB, typ 0.7dB	≤ 1.2 dB, typ 0.7dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between TX/RX:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Attenuation 800: 791 -862 MHz	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	200 W	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation: IM3, 2 x 43 dBm:	≤-110 dBm (153 dBc)	≤-110 dBm (153 dBc)	≤-110 dBm (153 dBc)
Mechanical Specifications			
Dimensions (W x H x D):	180 x 60 x 110 mm	180 x 60 x 100 mm	180 x 60 x 130 mm
Connectors:	N (f)	SMA (f)	7/16 (f)
Weight:	1.5 kg	1.5 kg	1.6 kg
Environmental Specifications			
Temp. range (normal operation):	-20 to +55° C	-20 to +55° C	-20 to +55° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%	Relative 5 - 95%
Sealing:	Indoor use	Indoor use	Indoor use

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Made in Sweden

RevD



Duplexer GSM900

890 - 915 MHz

935 - 960 MHz



This Duplexer combines/splits the GSM900 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for GSM900 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0266
Passband:	
Port 1: RX	890 - 915 MHz
Port 2: TX	935 - 960 MHz
Insertion loss:	≤ 1.2 dB, typ 0.7dB
Input return loss:	> 18.0 dB
Isolation between TX/RX:	≥ 50 dB
Attenuation 800:	
791 -862 MHz	≥ 50 dB
Max input power/port:	200 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	180 x 60 x 110 mm
Connectors:	4.3-10.0 (f)
Weight:	1.5 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +55° C
Humidity:	Relative 5 - 95%
Sealing:	Indoor use

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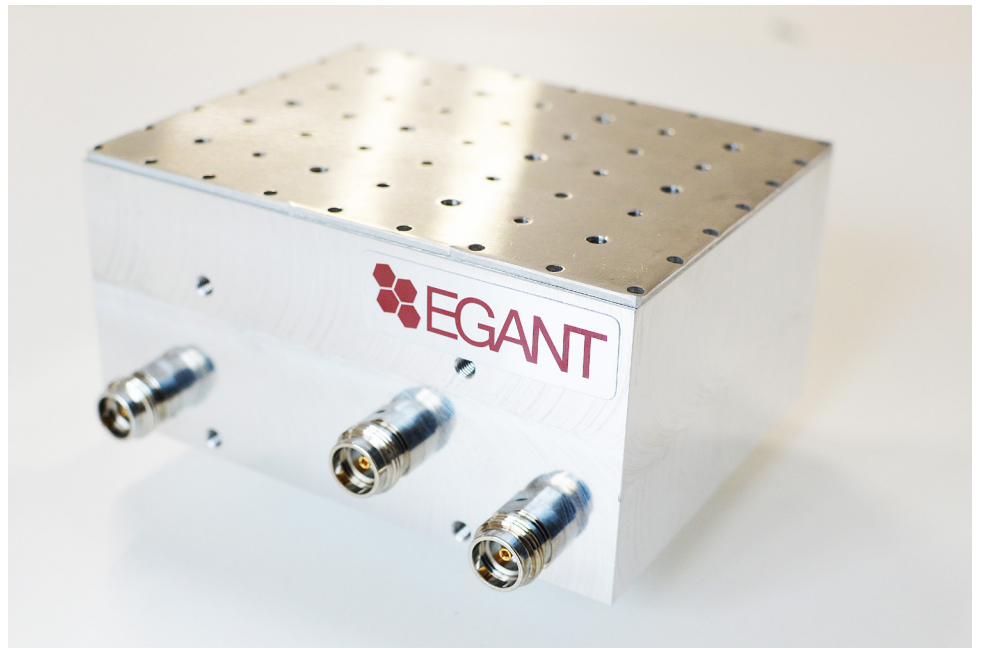
RevA



Duplexer TETRA

380 - 385 MHz

390 - 395 MHz



This Duplexer combines/splits the TETRA TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for TETRA Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0084	EG 602 0246	EG 602 0293
Passband:			
Port 1: RX	380 - 385 MHz	380 - 385 MHz	380 - 385 MHz
Port 2: TX	390 - 395 MHz	390 - 395 MHz	390 - 395 MHz
Insertion loss:	≤ 1.7 dB	≤ 1.7 dB	≤ 1.7 dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between TX/RX:	≥ 65 dB	≥ 65 dB	≥ 65 dB
Max input power/port:	200 W	200 W	100 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Monitoring port:			
Mechanical Specifications			
Dimensions (W x H x D):	100 x 150 x 100 mm	100 x 150 x 100 mm	100 x 150 x 100 mm
Connectors:	N (f)	4.3-10.0 (f)	SMA(f)
Weight:	1.4 kg	1.4 kg	1.4 kg
Environmental Specifications			
Temp. range (normal operation):	-20 to +65° C	-20 to +65° C	-20 to +65° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	Indoor use	Indoor use	Indoor use

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Made in Sweden

RevE



Duplexer TETRA

380 - 385 MHz

390 - 395 MHz

415 - 420 MHz

425 - 430 MHz

This Duplexer combines/splits the TETRA TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for TETRA Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0020	EG 602 0021	EG 602 0037
Passband:			
Port 1: RX	380 - 385 MHz	380 - 385 MHz	415 - 420 MHz
Port 2: TX	390 - 395 MHz	390 - 395 MHz	425 - 430 MHz
Insertion loss:	≤ 1.5 dB	≤ 0.8 dB	≤ 1.9 dB (1.2 typ)
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between TX/RX:	≥ 65 dB	≥ 65 dB	≥ 65 dB
Max input power/port:	200 W	200 W	80 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications			
Dimensions (W x H x D):	100 x 150 x 100 mm	100 x 150 x 100 mm	100 x 150 x 100 mm
Connectors:	7/16 (f)	7/16 (f)	N(f)
Weight:	1.4 kg	4.2 kg	3 kg
Environmental Specifications			
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C	-10 to +60° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	Indoor use	Indoor use	Indoor use

Egant reserves the right to change this product specification at any time without notice.

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Made in Sweden

Rev D



Duplexer 700
UP, 703 - 713MHz
DL, 758 - 768MHz



This Duplexer combines/splits the 700 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for 700 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0274	EG 602 0275	EG 602 0276
Passband:			
Port 1: RX/UL	703 - 713 MHz	703 - 713 MHz	703 - 713 MHz
Port 2: TX/DL	758 - 768 MHz	758 - 768 MHz	758 - 768 MHz
Insertion loss:	≤ 1.2 dB, typ 0.6dB	≤ 1.2 dB, typ 0.6dB	≤ 1.2 dB, typ 0.6dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between TX and RX:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	200 W	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤-110 dBm (153 dBc)	≤-110 dBm (153 dBc)	≤-110 dBm (153 dBc)
Mechanical Specifications			
Dimensions (W x H x D):	160 x 55 x 120 mm	160 x 55 x 120 mm	160 x 70 x 120 mm
Connectors:	7/16 (f)	4.3-10.0 (f)	4.3-10.0 (f)
Weight:	2.0 kg	2.0 kg	2.3 kg
Environmental Specifications			
Temp. range (normal operation):	-20 to +55° C	-20 to +55° C	-25 to +65° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%	Relative 5 - 95%
Sealing:	Indoor use	Indoor use	Outdoor IP65

Egant reserves the right to change this product specification at any time without notice.

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Made in Sweden

RevA



LTE 800 Duplexer
791 - 821MHz 832 - 862MHz



This Duplexer combines/splits the LTE800 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for LTE800 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0192	EG 602 0215	EG 602 0291
Passband: (To be configured for customers needs)			
Port 1: TX	791 - 821MHz	791 - 821MHz	791 - 821MHz
Port 2: RX	832 - 862MHz	832 - 862MHz	832 - 862MHz
Insertion loss:	≤ 1.0 dB, typ 0.6dB	≤ 1.2 dB, typ 0.6dB	≤ 1.2 dB, typ 0.6dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB
Isolation between TX/RX:	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	100 W	100 W	100 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	< -110 dBm (153 dBc)	< -110 dBm (153 dBc)	< -110 dBm (153 dBc)

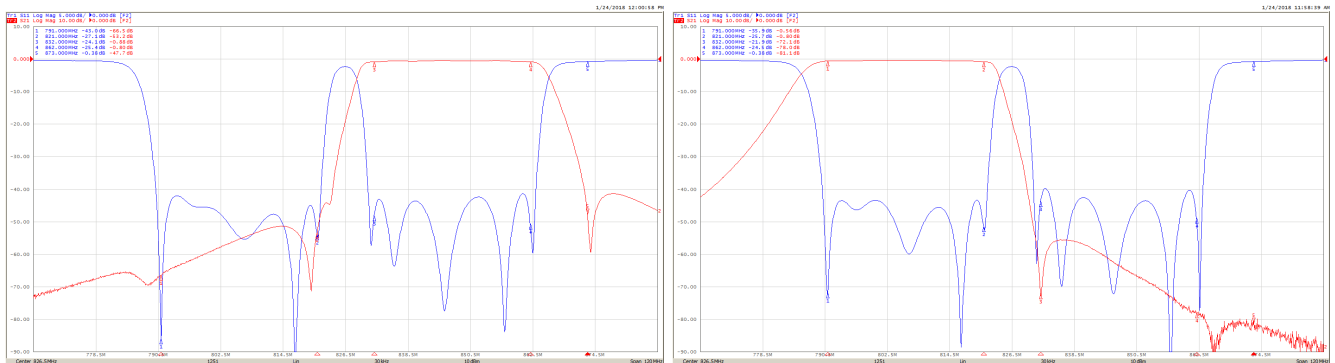
Mechanical Specifications

Dimensions (W x H x D):	175 x 45 x 155 mm	175 x 45 x 155 mm	175 x 45 x 155 mm
Connectors:	7/16 (f)	7/16(f), 7/16(m), SMA(f)	N(f)
Weight:	1.8 kg	1.8 kg	1.8 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +55° C	-20 to +55° C	-20 to +55° C
Humidity:	Relative 5 - 95%	Relative 5 - 95%	Relative 5 - 95%
Sealing:	Indoor use	Indoor use	Indoor use

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RevE



LTE 800 Duplexer
791 - 821MHz 832 - 862MHz



This Duplexer combines/splits the LTE800 TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for LTE800 Duplexers

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0265
Passband: (To be configured for customers needs)	
Port 1: TX	791 - 821MHz
Port 2: RX	832 - 862MHz
Insertion loss:	≤ 1.0 dB, typ 0.6dB
Input return loss:	> 18.0 dB
Isolation between TX/RX:	≥ 50 dB
Max input power/port:	100 W
Impedance in/out:	50 Ohm

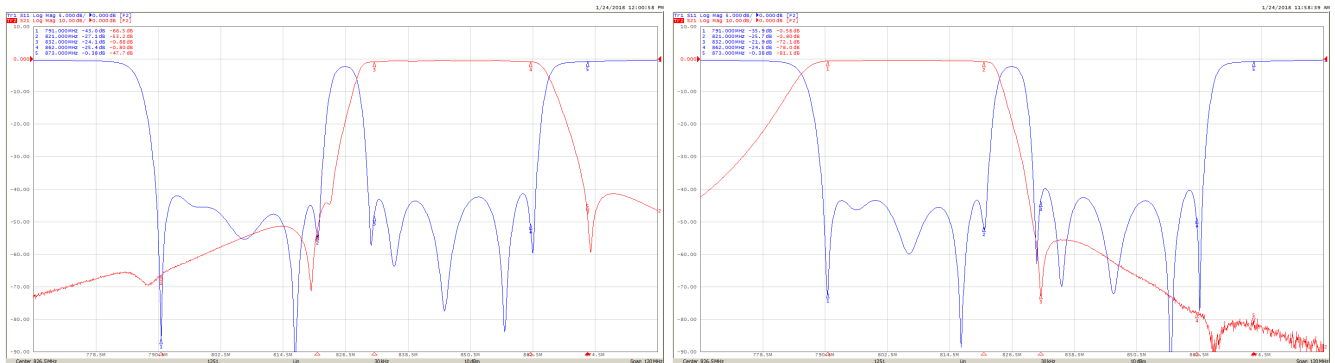
Mechanical Specifications

Dimensions (W x H x D):	175 x 45 x 155 mm
Connectors:	4.3-10.0 (f)
Weight:	1.8 kg

Environmental Specifications

Temp. range (normal operation):	-20 to +55° C
Humidity:	Relative 5 - 100%
Sealing:	Indoor use

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RevC



Duplexer GSM-R

873 - 880 MHz

918 - 924.8 MHz



This Duplexer combines/splits the GSM-R TX and RX signals to or from one common TX/RX antenna.

Technical Specifications for GSM-R Duplexers

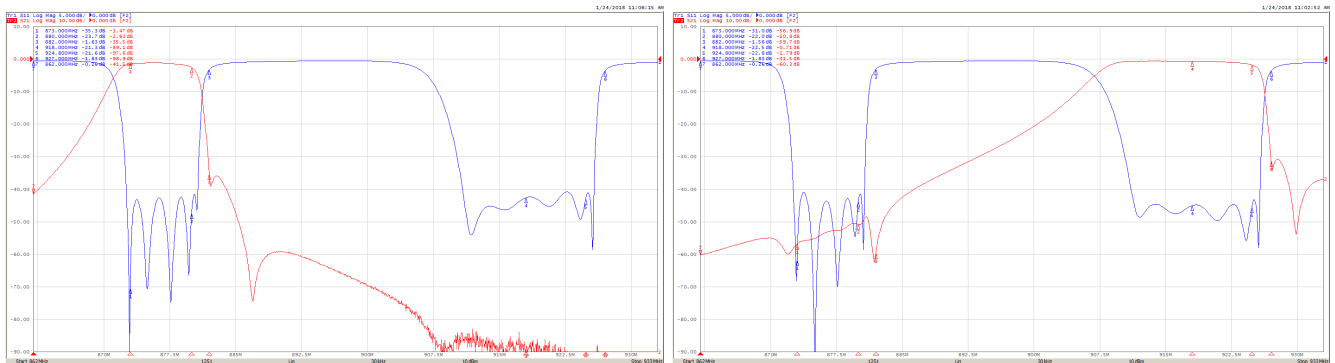
Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0148	EG 602 0272
Passband:		
Port 1: RX	873 - 880 MHz	873 - 880 MHz
Port 2: TX	918 - 924.8 MHz	918 - 924.8 MHz
Insertion loss:	≤ 3.0 dB, typ 2.0dB	≤ 3.0 dB, typ 2.0dB
Input return loss:	> 18.0 dB	> 18.0 dB
Isolation between TX to RX:	≥ 50 dB	≥ 50 dB
Isolation between RX to TX:	≥ 80 dB	≥ 80 dB
Attenuation 800:		
791 - 862 MHz	≥ 40 dB	≥ 40 dB
Max input power/port:	250 W	250 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	160 x 55 x 120 mm	160 x 55 x 120 mm
Connectors:	7/16 (f)	4.3-10.0 (f)
Weight:	2.0 kg	2.0 kg



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Band Pass Filter

www.egant.se

Frequency range

Band Pass Filters

380-395MHz
880-960MHz
880-960MHz
890-960MHz
880-960MHz
890-960MHz
890-960MHz
1710-1880MHz
1920-2170MHz
1935-1965, 2125-2155MHz
1950-1965, 2140-2155MHz

Description

Band Pass Filter Tetra, reject 403-2170
Band Pass Filter 900, reject 0-850, 990-6000
Band Pass Filter 900, reject 0-889
Band Pass Filter 900, reject 0-888
Band Pass Filter 900, reject 0-888,5
Band Pass Filter 900, reject 0-888,5
Band Pass Filter 900, reject 1920-2170
Band Pass Filter 1800, reject 1920-2170
Band Pass Filter 2100, reject < 1900, > 2190
Band Pass Filter 2100, reject 1970-2000
Band Pass Filter 2100, reject 1970-2000

Connector

7/16(f)
7/16(f)
7/16(f)
7/16(f)
7/16(m)-7/16(f)
7/16(m)-7/16(f)
7/16(f)
7/16(f)
7/16(f)
7/16(m)-7/16(f)
7/16(m)-7/16(f)

Ordering number

EG 602 0181
EG 602 0152
EG 602 0142
EG 602 0169
EG 601 0198
EG 601 0199
EG 602 0031
EG 602 0032
EG 602 0170
EG 602 0201
EG 602 0200



Band Pass Filter

Tetra 380 - 395 MHz

GSM900 880 - 960 MHz

UMTS2100 1920 - 2170 MHz

Technical Specifications for TETRA, GMS900, UMTS2100 Band Pass Filter

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0181	EG 602 0152	EG 602 0153
Passband:	380 - 395 MHz	880 - 960 MHz	1920 - 2170 MHz
Reject Band:	403 - 2170MHz	0 - 850MHz 990 - 6000GHz	0 - 1850MHz 2250 - 6000MHz
Insertion loss:	≤ 2.4 dB, typ 1,5dB	≤ 1.8 dB, typ 0,8dB	≤ 1.8 dB, typ 0,7dB
Input return loss:	> 16.0 dB	> 16.0 dB	> 16.0 dB
Attenuation in reject band:			
Reject Band: 0 -340 MHz	≥ 60 dB		
Reject Band: 403 -1920 MHz	≥ 60 dB		
Reject Band: 1920 - 3GHz	≥ 70 dB		
Reject Band: 0GHz - 850MHz		> 70dB	
Reject Band: 990MHz - 3GHz		> 70dB	
Reject Band: 0GHz - 1850MHz			> 70dB
Reject Band: 2250 - 3GHz			> 70dB
Reject Band: 3GHz - 6GHz	> 70dB	> 70dB	> 70dB
Reject Band: 6GHz - 10GHz	> 50dB	> 50dB	> 50dB
Reject Band: 10GHz - 18GHz	> 20dB	> 20dB	> 20dB
Max input power/port:	100 W	100 W	100 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	140 x 75 x 75 mm	175 x 45 x 165 mm	175 x 45 x 165 mm
Connectors:	7/16 (f)	7/16 (f)	7/16 (f)
Weight:	1.5 kg	1.8 kg	1.8kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	Indoor use	Indoor use	Indoor use

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Band Pass Filter
GSM900 890 - 960 MHz
Stop band: 0-889MHz



Technical Specifications for the Band Pass Filter GSM900

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 602 0142	EG 602 0147
Passband:	890 - 960 MHz	890 - 960 MHz
Stop band	0 - 889 MHz	0 - 889 MHz
Insertion loss:		
890 - 891 MHz	≤ 4 dB	≤ 4 dB
891 - 892 MHz	≤ 2.5 dB	≤ 2.5 dB
892 - 893 MHz	≤ 1.0 dB	≤ 1.0 dB
893 - 905 MHz	≤ 0.6 dB	≤ 0.6 dB
905 - 960 MHz	≤ 0.3 dB	≤ 0.3 dB
Input return loss:	> 17.5 dB	> 17.5 dB
Attenuation in rejection band:		
0 - 869 MHz	≥ 50 dB	≥ 50 dB
869 - 889 MHz	≥ 30 dB	≥ 30 dB
Max input power/port:	400 W	400 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm	≤ -110 dBm
Mechanical Specifications		
Dimensions (W x H x D):	300 x 72 x 95 mm	310 x 82 x 105 mm
Connectors:	7/16 (f)	7/16 (f)
Weight:	2.5 kg	3.4 kg
Environmental Specifications		
Temp. range (normal operation):	0 to + 40° C	-20 to + 55° C
Sealing:	IP50	IP65

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Band Pass Filter

GSM900 890 - 960 MHz

Stop band: 0-888MHz



Technical Specifications for the Band Pass Filter GSM900

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0169
Passband:	890 - 960 MHz
Stop band	0 - 888 MHz
Insertion loss:	
890 - 892 MHz	≤ 1.5 dB
892 - 893 MHz	≤ 0.8 dB
893 - 905 MHz	≤ 0.6 dB
905 - 960 MHz	≤ 0.3 dB
Input return loss:	> 17.5 dB
Attenuation in rejection band:	
0 - 880 MHz	≥ 50 dB
880 - 885 MHz	≥ 40 dB
885 - 888 MHz	≥ 30 dB
Max input power/port:	400 W
Impedance in/out:	50 Ohm
Intermodulation:	
IM3, 2 x 43 dBm:	≤ -110 dBm, (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	300 x 72 x 95 mm
Connectors:	7/16 (f)
Weight:	2.5 kg

Environmental Specifications

Temp. range (normal operation):	-35 to + 65° C
Sealing:	IP66

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Band Pass Filter

GSM900 890 - 960 MHz

Stop band: 0-888.5MHz



Technical Specifications for the Band Pass Filter GSM900

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 602 0198	EG 602 0199
Passband:	890 - 960 MHz	890 - 960 MHz
Stop band	0 - 888.5 MHz	0 - 888.5 MHz
Insertion loss:		
890 - 892 MHz	≤ 4.0 dB	≤ 4.0 dB
892 - 893 MHz	≤ 2.0 dB	≤ 2.0 dB
893 - 960 MHz	≤ 1.0 dB, typ 0,4 dB	≤ 1.0 dB, typ 0,4 dB
Input return loss:	> 18 dB, typ 22 dB	> 18 dB, typ 22 dB
Attenuation in rejection band:		
0 - 888.5 MHz	≥ 50 dB	≥ 50 dB
Max input power/port:	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm, (153 dBc)	≤ -110 dBm, (153 dBc)
Mechanical Specifications		
Dimensions (W x H x D):	300 x 60 x 180 mm	320 x 72 x 200 mm
Connectors:	7/16 (f) - 7/16(m)	7/16 (f) - 7/16(m)
Weight:	2.5 kg	3.0 kg
Environmental Specifications		
Temp. range (normal operation):	+5 to + 45° C	-30 to + 65° C
Sealing:	Indoor	IP66

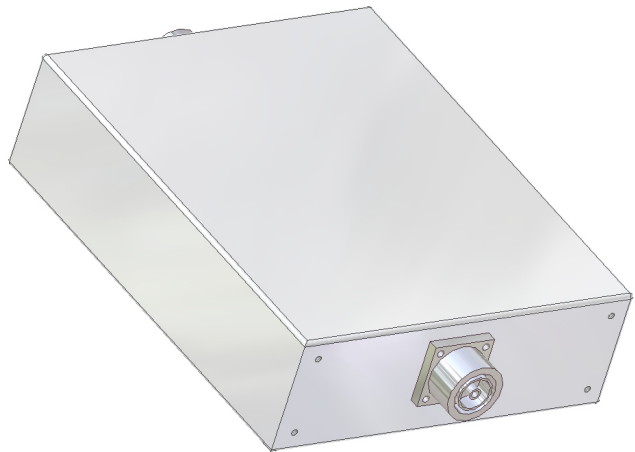
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Band Pass Filter
GSM900 / GSM1800
890 - 960 MHz
1710 - 1880 MHz

PRELIMINARY



Technical Specifications for the Band Pass Filter GSM900 / GSM1800

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 602 0031	EG 602 0032
Passband:	890 - 960 MHz	1710 - 1880 MHz
Rejectband	1920 - 2170 MHz	1920 - 2170 MHz
Insertion loss:	≤ 1 dB (0.5 typ)	≤ 1 dB (0.5 typ)
Input return loss:	> 18 dB	> 18 dB
Attenuation in rejection band:	≥ 60 dB	≥ 60 dB
Max input power/port:	100 W	100 W
DC Bypass	Yes	Yes
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Mechanical Specifications		
Dimensions (W x H x D):	195 x 150 x 70 mm	195 x 150 x 70 mm
Connectors:	7/16 (f)	7/16 (f)
Weight:	1.4 kg	1.4 kg
Environmental Specifications		
Temp. range (normal operation):	-40 to +70° C	-40 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	Indoor use	Indoor use

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Band Pass Filter
UMTS 1920 - 2170 MHz



Technical Specifications for the Band Pass Filter UMTS2100

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0170
Passband:	1920 - 2170 MHz
Stop band	≤ 1900 MHz ≥ 2190 MHz
Insertion loss: 1920 - 2170 MHz	≤ 0.5 dB
Input return loss:	> 17.5 dB
Attenuation in rejection band: 0 -1900 MHz ≥ 2190 MHz	≥ 50 dB ≥ 30 dB
Max input power/port:	150 W
Impedance in/out:	50 Ohm
Intermodulation: IM3, 2 x 43 dBm:	≤ -110 dBm, (153 dBc)

Mechanical Specifications

Dimensions (W x H x D):	190 x 120 x 50 mm
Connectors:	7/16 (f)
Weight:	2.3 kg

Environmental Specifications

Temp. range (normal operation):	-35 to + 65° C
Sealing:	IP66

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Dual Band Pass Filter
UMTS2100



Technical Specifications for the Band Pass Filter UMTS2100

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 602 0200	EG 602 0201
Passband RX:	1950 - 1965 MHz	1935 - 1965 MHz
Passband TX:	2140 - 2155 MHz	2125 - 2155 MHz
Stop band	1970 - 2000 MHz	1970 - 2000 MHz
Insertion loss:		
RX:	≤ 1.5 dB	≤ 1.5 dB
TX:	≤ 0.8 dB	≤ 0.8 dB
Input return loss:	> 18 dB	> 18 dB
Attenuation in rejection band:		
1970 - 1980 MHz	≥ 40 dB	≥ 40 dB
1980 - 2000 MHz	≥ 50 dB	≥ 50 dB
Max input power/port:	100 W	100 W
Impedance in/out:	50 Ohm	50 Ohm
Intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm, (153 dBc)	≤ -110 dBm, (153 dBc)
Mechanical Specifications		
Dimensions (W x H x D):	300 x 72 x 95 mm	300 x 72 x 95 mm
Connectors:	7/16 (f) - 7/16(m)	7/16 (f) - 7/16(m)
Weight:	3.5 kg	3.5 kg
Environmental Specifications		
Temp. range (normal operation):	-30 to + 65° C	-30 to + 65° C
Sealing:	IP66	IP66

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Phase Adjuster

www.egant.se

Frequency range

Phase Adjuster

791-821, 832-862MHz
890-915, 935-960MHz
880-915, 925-960MHz
2500-2570, 2620-2690MHz

Description

Phase Adjuster LTE800
Phase Adjuster GSM900
Phase Adjuster EGSM
Phase Adjuster LTE2600

Connector

7/16(f)
7/16(f)
7/16(f)
7/16(f)

Ordering number

EG 602 0137
EG 100 9032
EG 602 0133
EG 602 0138



Phase Adjuster / Duplexer
LTE 800



Technical Specifications for the Phase Adjuster/Duplexer

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0137
Passband:	791 - 821, 832 - 862 MHz
Insertion loss:	
Port 1 - Ant 1: 791 - 821 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 2: 791 - 821 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 1: 832 - 862 MHz	≤ 4.8 dB (4.1 dB typ 3 dB coupling)
Port 2 - Ant 2: 832 - 862 MHz	≤ 4.8 dB (4.1 dB typ 3 dB coupling)

Phase difference:

Port 1 - Ant 1: 791 - 821 MHz	0°
Port 2 - Ant 2: 791 - 821 MHz	0°
Port 2 - Ant 1: 832 - 862 MHz	0 ± 3° (± 1° typ)
Port 2 - Ant 2: 832 - 862 MHz	0 ± 3° (± 1° typ)

Input return loss:	> 18.0 dB
Isolation between UL - DL:	≥ 30 dB
Max input power/port:	2 x 35 W
Impedance in/out:	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	105 x 240 x 165 mm
Connectors:	7/16 (f)
Weight:	3.7 kg

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP68

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**Phase Adjuster / Duplexer
GSM 900**



Technical Specifications for the Phase Adjuster/Duplexer

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 100 9032
Passband:	890 - 915, 935 - 960 MHz
Insertion loss:	
Port 1 - Ant 1: 890 - 915 MHz	≤ 1.5 dB (0.9 dB typ)
Port 1 - Ant 2: 890 - 915 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 1: 935 - 960 MHz	≤ 7.8 dB (7.1 dB typ 6 dB coupling)
Port 2 - Ant 2: 935 - 960 MHz	≤ 7.8 dB (7.1 dB typ 6 dB coupling)

Phase difference:

Port 1 - Ant 1: 890 - 915 MHz	0°
Port 1 - Ant 2: 890 - 915 MHz	0°
Port 1 - Ant 1: 935 - 960 MHz	$-90 \pm 3^\circ$ ($\pm 1^\circ$ typ)
Port 1 - Ant 2: 935 - 960 MHz	$-90 \pm 3^\circ$ ($\pm 1^\circ$ typ)
Port 2 - Ant 1: 935 - 960 MHz	$0 \pm 3^\circ$ ($\pm 1^\circ$ typ)
Port 2 - Ant 2: 935 - 960 MHz	$0 \pm 3^\circ$ ($\pm 1^\circ$ typ)

Input return loss:	> 18.0 dB
Isolation between UL - DL:	≥ 30 dB
Max input power/port:	2 x 35 W
Impedance in/out:	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	105 x 240 x 165 mm
Connectors:	7/16 (f)
Weight:	3.7 kg

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP68

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**Phase Adjuster / Duplexer
EGSM 900**



Technical Specifications for the Phase Adjuster/Duplexer

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0133
Passband:	880 - 915, 925 - 960 MHz
Insertion loss:	
Port 1 - Ant 1: 880 - 915 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 2: 880 - 915 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 1: 925 - 960 MHz	≤ 4.8 dB (4.1 dB typ 3 dB coupling)
Port 2 - Ant 2: 925 - 960 MHz	≤ 4.8 dB (4.1 dB typ 3 dB coupling)

Phase difference:

Port 1 - Ant 1: 880 - 915 MHz	0°
Port 2 - Ant 2: 880 - 915 MHz	0°
Port 2 - Ant 1: 925 - 960 MHz	0 ± 3° (± 1° typ)
Port 2 - Ant 2: 925 - 960 MHz	0 ± 3° (± 1° typ)

Input return loss:	> 18.0 dB
Isolation between UL - DL:	≥ 30 dB
Max input power/port:	2 x 35 W
Impedance in/out:	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	105 x 240 x 165 mm
Connectors:	7/16 (f)
Weight:	3.7 kg

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP68

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**Phase Adjuster / Duplexer
LTE 2600**



Technical Specifications for the Phase Adjuster/Duplexer

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0138
Passband:	2500 - 2570, 2620 - 2690 MHz
Insertion loss:	
Port 1 - Ant 1: 2500 - 2570 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 2: 2500 - 2570 MHz	≤ 1.5 dB (0.9 dB typ)
Port 2 - Ant 1: 2620 - 2690 MHz	≤ 4.8 dB (4.1 dB typ 3 dB coupling)
Port 2 - Ant 2: 2620 - 2690 MHz	≤ 4.8 dB (4.1 dB typ 3 dB coupling)

Phase difference:

Port 1 - Ant 1: 2500 - 2570 MHz	0°
Port 2 - Ant 2: 2500 - 2570 MHz	0°
Port 2 - Ant 1: 2620 - 2690 MHz	0 ± 3° (± 1° typ)
Port 2 - Ant 2: 2620 - 2690 MHz	0 ± 3° (± 1° typ)

Input return loss:	> 18.0 dB
Isolation between UL - DL:	≥ 30 dB
Max input power/port:	2 x 35 W
Impedance in/out:	50 Ohm

Mechanical Specifications

Dimensions (W x H x D):	105 x 240 x 165 mm
Connectors:	7/16 (f)
Weight:	3.7 kg

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP68

Egant reserves the right to change this product specification at any time without notice.

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Protection Filter

www.egant.se

Frequency range

Protection Filter

876-880MHz, 921-925MHz

885-915MHz, 930-960MHz

876-880MHz, 921-925MHz

885-915MHz, 930-960MHz

Description

Reject band 885-915, 930-960

Reject band 876-880, 921-925

Reject band 885-915, 930-960

Reject band 876-880, 921-925

Connector

N(f)

N(f)

7/16(f)

7/16(f)

Ordering number

EG 602 0116

EG 602 0118

EG 602 0117

EG 602 0119



Protection Filter

885-915MHZ + 930-960MHz

876-880MHZ + 921-925MHz



The Protection filters is design to eliminate interference between GSM-R and E-GSM. The filters handles both Uplink and Downlink signals making it very easy to install on an existing system.

Technical Specifications for Protection Filters

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications				
Product number:	EG 602 0116 GSM-R	EG 602 0117 GSM-R	EG 602 0118 E-GSM	EG 602 0119 E-GSM
Passband:	876 - 880 MHz + 921 - 925 MHz	876 - 880 MHz + 921 - 925 MHz	885 - 915 MHz + 930 - 960 MHz	885 - 915 MHz + 930 - 960 MHz
Insertion loss:	≤ 1,6 dB, typ 0.7dB	≤ 1,6 dB, typ 0.7dB	≤ 1,6 dB, typ 0.7dB	≤ 1,6 dB, typ 0.7dB
Input return loss:	> 18.0 dB	> 18.0 dB	> 18.0 dB	> 18.0 dB
Rejection frequency:	885 - 915MHz + 930 - 960MHz	885 - 915MHz + 930 - 960MHz	876 - 880MHz + 921 - 925MHz	876 - 880MHz + 921 - 925MHz
Rejection:	≥ 50 dB	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max input power/port:	200 W	200 W	200 W	200 W
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Intermodulation: IM3, 2 x 43 dBm:	≤ -110 dBm	≤ -110 dBm	≤ -110 dBm	≤ -110 dBm
Mechanical Specifications				
Dimensions (W x H x D):	180 x 65 x 150m	180 x 65 x 150m	180 x 65 x 150m	180 x 65 x 150m
Connectors:	N (f)	7/16 (f)	N (f)	7/16 (f)
Weight:	1.5 kg	1.5 kg	1.5 kg	1.5 kg

Egant reserves the right to change this product specification at any time without notice.

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Low Pass Filters

www.egant.se

Frequency range

Low Pass Filter

DC-500MHz

DC-500MHz

DC-960MHz

Description

Reject 790-2700

Reject 960-2500

Reject 1710-18GHz

Connector

7/16(f)

N(m)-N(f)

N(m)-N(f)

Ordering number

EG 602 0128

EG 602 0050

EG 602 0052



Low Pass Filter
DC- 500 MHz
Reject 790-2700MHz

Technical Specifications for Low Pass Filters

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 602 0128
Passband:	DC - 500 MHz
Rejection band:	790 - 2700 MHz
Insertion loss:	$\leq 0.3\text{dB}$ (0.1dB typ)
Input return loss	
376-500MHz:	$> 16.0\text{ dB}$
DC-375MHz:	$> 10.0\text{ dB}$
Attenuation/Reject Band	$\geq 40\text{dB}$
Max input power/port:	250 W
Impedance in/out:	50 Ohm

Mechanical Specifications

Dimensions (W x H x D) mm:	375 x 40 x 40
Connectors:	7/16(f)
Weight:	1,2 kg

Environmental Specifications

Temp. range (normal operation):	-40 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP65

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Low Pass Filter

DC- 500 MHz

DC - 960 MHz

Technical Specifications for Low Pass Filters

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 602 0050	EG 602 0052	EG 602 0070
Passband:	DC - 500 MHz	DC - 960 MHz	DC - 960 MHz
Rejection band:	960 - 2500 MHz	1710 MHz - 18 GHz	1710 MHz - 18 GHz
Insertion loss:	≤ 0.3dB (0.1dB typ)	≤ 0.3dB (0.1dB typ)	≤ 0.4dB (0.15dB typ)
Input return loss			
376-960MHz:	> 18.0 dB	> 18.0 dB	> 13.0 dB
>380MHz	> 10.0 dB	> 11.0 dB	> 10.0 dB
Attenuation/Reject Band	≥ 70dB	≥ 70dB	≥ 70dB
Max input power/port:	250 W	250 W	250 W
Impedance in/out:	50 Ohm	50 Ohm	75 Ohm
Intermodulation:			
IM3, 2 x 43 dBm:	≤ -117 dBm (160 dBc)	≤ -117 dBm (160 dBc)	≤ -117 dBm (160 dBc)
Mechanical Specifications			
Dimensions (W x H x D) mm:	127 x 56 x 30	127 x 56 x 30	127 x 56 x 30
Connectors:	N(m) - N(f)	N(m) - N(f)	N(m) - N(f)
Weight:	0.7 kg	0.6 kg	0.6 kg
Environmental Specifications			
Temp. range (normal operation):	-40 to +70° C	-49 to +70° C	-49 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65

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4x4 Combiners

www.egant.se

Frequency range

4x4 Combiners

376-960MHz
376-960MHz
376-2200MHz
700-2700MHz
700-2700MHz
800-960MHz
1710-2200MHz
1710-2700MHz
1710-2700MHz

Description

4-Way Combiner
4-Way Combiner
4-Way Combiner
4-Way Combiner
4-Way Combiner
4-Way Combiner
4-Way Combiner
4-Way Combiner
4-Way Combiner

Connector

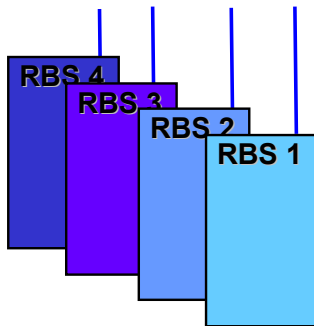
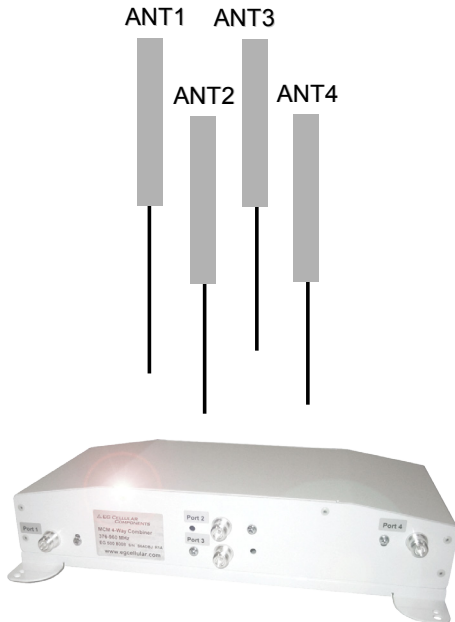
N(f)
7/16(f)
7/16(f)
N(f)
7/16(f)
N(f)
N(f)
N(f)
7/16(f)

Ordering number

EG 500 8008
EG 603 0014
EG 603 0008
EG 603 0080
EG 603 0081
EG 500 8001
EG 500 8002
EG 603 0078
EG 603 0079



MCM 4-Way Combiner Broadband TETRA, CDMA2000, GSM900 376 - 960 MHz



Combines up to 4 RBSs into the same antenna system

The 4-way combiner enables you to connect 4 Base Stations. The combiner combines the signal and equally splits it between the antenna ports.

This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.



Innovative design

The 4-way combiner incorporates a broad band and low loss product design. The 4-way combiner is designed for low insertion loss and intermodulation.

There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

The benefits from installing the 4-way combiner instead of hybrid combiners and splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for 4-Way Combiner Broadband (MCM)

Below are some typical data. For more detailed information, please contact us.

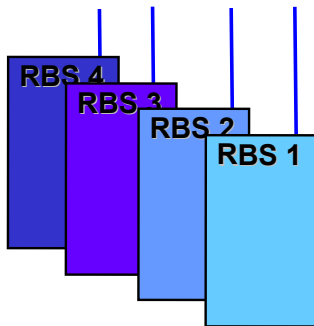
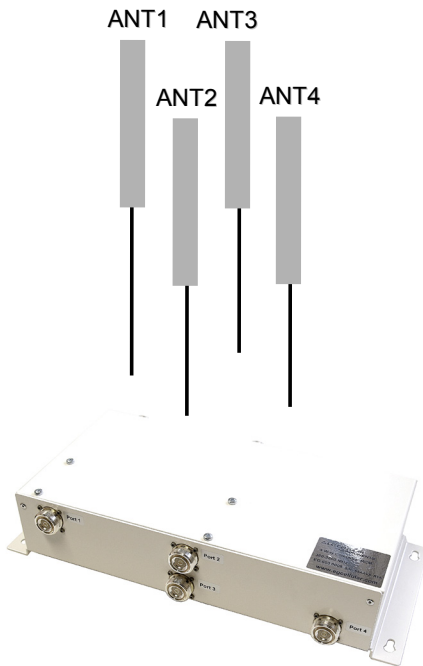
Electrical Specifications		
Product number:	EG 500 8008	EG 603 0014
Passband:	376 - 500 MHz, 880 - 960 MHz	376 - 500 MHz, 880 - 960 MHz
Isolation between ports:	≥ 25 dB	≥ 25 dB
Input return loss:	> 18.0 dB	> 18.0 dB
Coupling:	6.4 ± 0.7 dB	6.4 ± 0.7 dB
Max input power/port:	100 W	100 W
3 rd order intermodulation:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
IM3, 2 x 43 dBm:	50 Ohm	50 Ohm
Impedance in/out:		
Mechanical Specifications		
Dimensions (W x H x D):	310 x 130 x 130 mm	380 x 150 x 130 mm
Connectors:	N (f)	7/16 (f)
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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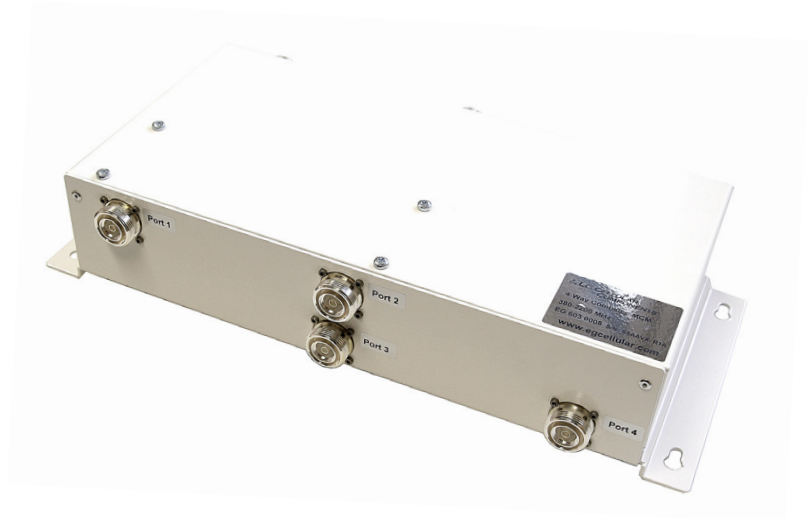


4-Way Combiner Broadband 376 - 2200 MHz



Combines up to 4 RBSs into the shared antenna system

The 4-way combiner enables the connection of 4 Radio Base Stations. It combines the signal and equally splits it between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.



Innovative design

The 4-way combiner incorporates a broad band and low loss product design. It is specifically designed with low insertion loss and intermodulation in mind. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding inter-modulation performance.

The benefits from installing the 4-way combiner instead of hybrid combiners and splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for 4-Way Combiner Broadband (MCM)

Below are some typical data. For more detailed information, please contact us.

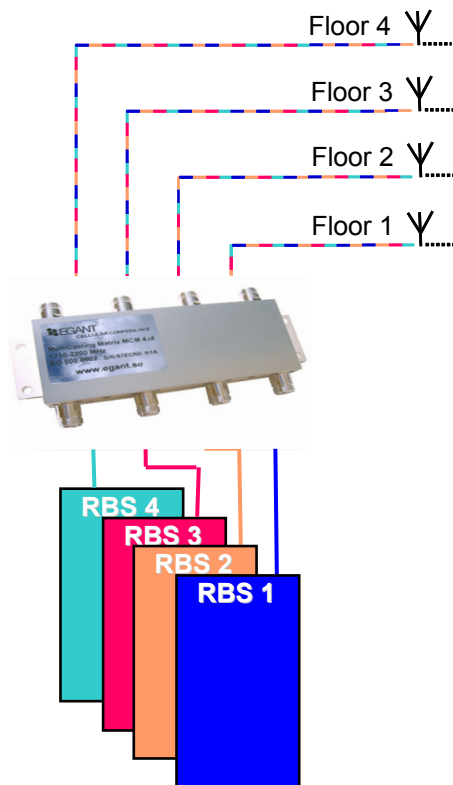
Electrical Specifications		
Product number:	EG 603 0008	EG 603 0069
Passband:	376 - 2200 MHz	376 - 2200 MHz
Isolation between ports:	≥ 25 dB (30 dB typ)	≥ 25 dB (30 dB typ)
Input return loss:	> 17.0 dB	> 17.0 dB
Coupling:	6.4 ± 1.0 dB	6.4 ± 1.0 dB
Max input power/port:	100 W	100 W
3 rd order intermodulation: IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	410 x 130 x 130 mm	410 x 130 x 130 mm
Connectors:	7/16 (f)	N(f)
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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Multicasting Matrix MCM 4 x 4 700 - 2700 MHz / LTE800,GSM, TDMA, UMTS, LTE2600



Combines up to 4 RBSs into the same antenna system

The advanced MCM enables you to connect 4 Radio Base Stations. The MCM combines the signals and equally splits them between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.



Sleek design

The MCM incorporates a broad band and low loss product design. The MCM is specifically designed for low insertion loss and low intermodulation. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

The benefits from installing the MCM instead of hybrid combiners and splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the Multicasting Matrix (MCM)

Below are some typical data. For more detailed information, please contact us.

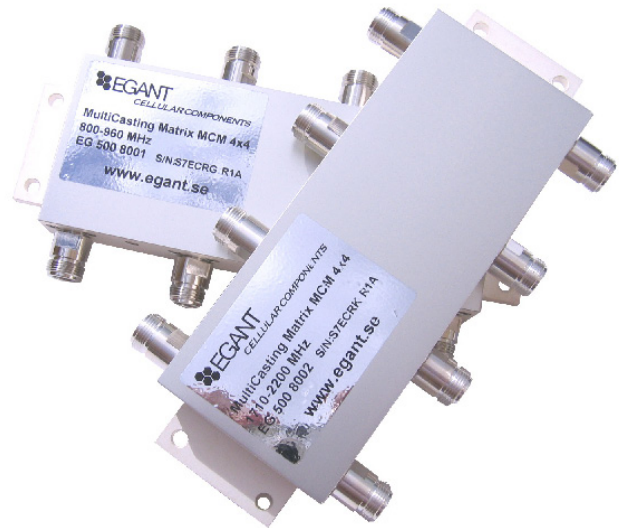
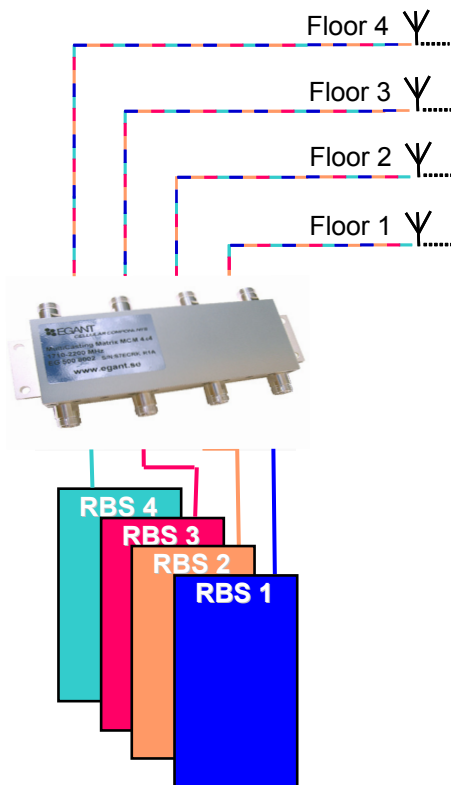
Electrical Specifications		
Product number:	EG 603 0080	EG 603 0081
Passband:	700 - 2700 MHz	700 - 2700 MHz
Isolation between ports:	≥ 25 dB, typ >33dB	≥ 25 dB, typ >33dB
Input return loss:	> 21 dB, typ >25dB	> 21 dB, typ >25dB
Coupling:	6.4 $\pm$ 0.7 dB	6.4 $\pm$ 0.7 dB
Max input power/port:	150 W	150 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	< - 110 dBm, 153 dBc	< - 110 dBm, 153 dBc
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	274 x 35 x 155 mm	274 x 35 x 155 mm
Connectors:	N (f)	7/16 (f)
Weight:	2,25 Kg	2.25 Kg
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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Multicasting Matrix MCM 4 x 4
800 - 960 MHz / GSM, NMT, AMPS
1710 - 2200 MHz / GSM, TDMA,
UMTS



Combines up to 4 RBSs into the same antenna system

The advanced MCM enables you to connect 4 Radio Base Stations. The MCM combines the signals and equally splits them between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Sleek design

The MCM incorporates a broad band and low loss product design. The MCM is specifically designed for low insertion loss and low intermodulation. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

The benefits from installing the MCM instead of hybrid combiners and splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the Multicasting Matrix (MCM)

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 500 8001	EG 500 8002
Passband:	800 - 960 MHz	1710 - 2200 MHz
Isolation between ports:	≥ 25 dB	≥ 25 dB
Input return loss:	> 22.0 dB	> 22.0 dB
Insertion loss:	≤ 0.3 dB	≤ 0.3 dB
Coupling:	6.2 ± 0.5 dB	6.2 ± 0.5 dB
Max input power/port:	100 W	100 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	< -105 dBm, 148 dBc	< -105 dBm, 148 dBc
Impedance in/out:	50 Ohm	50 Ohm

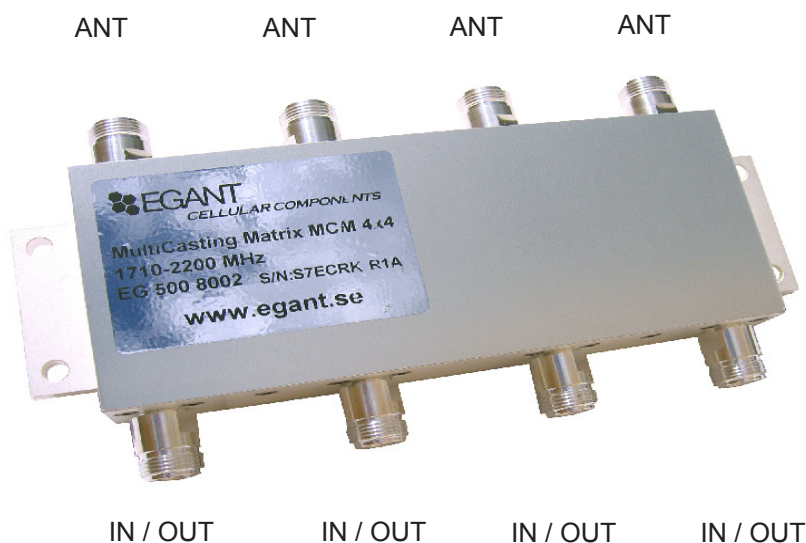
Mechanical Specifications

Dimensions (W x H x D):	274 x 35 x 155 mm	274 x 35 x 155 mm
Connectors:	N (f)	N (f)
Weight:	2.25 Kg	2.25 Kg

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

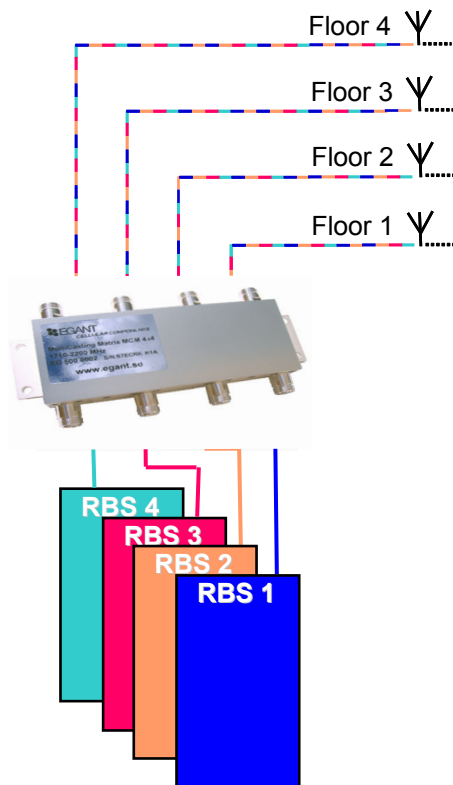
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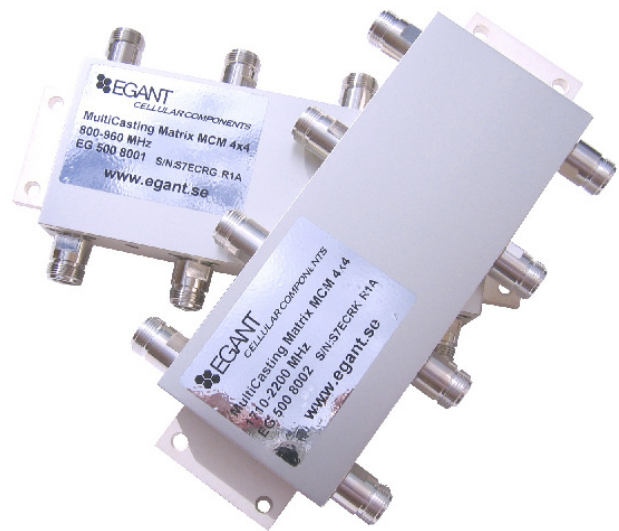


Multicasting Matrix MCM 4 x 4 1710 - 2700 MHz / GSM, TDMA, UMTS, LTE



Combines up to 4 RBSs into the same antenna system

The advanced MCM enables you to connect 4 Radio Base Stations. The MCM combines the signals and equally splits them between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.



Sleek design

The MCM incorporates a broad band and low loss product design. The MCM is specifically designed for low insertion loss and low intermodulation. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

The benefits from installing the MCM instead of hybrid combiners and splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the Multicasting Matrix (MCM)

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0078	EG 603 0079
Passband:	1710 - 2700 MHz	1710 - 2700 MHz
Isolation between ports:	≥ 25 dB,	≥ 25 dB
Input return loss:	> 22.0 dB	> 22.0 dB
Insertion loss:	≤ 0.3 dB	≤ 0.3 dB
Coupling:	6.2 ± 0.5 dB	6.2 ± 0.5 dB
Max input power/port:	100 W	100 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	< -105 dBm, 148 dBc	< -105 dBm, 148 dBc
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	220 x 34 x 115 mm	220 x 34 x 115 mm
Connectors:	N (f)	7/16 (f)
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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3x3 Combiners

www.egant.se

Frequency range

3x3 Combiners

376-960MHz

376-960MHz

700-2700MHz

700-2700MHz

Description

3x3 Combiner

3x3 Combiner

3x3 Combiner

3x3 Combiner

Connector

N(f)

7/16(f)

N(f)

7/16(f)

Ordering number

EG 603 0091

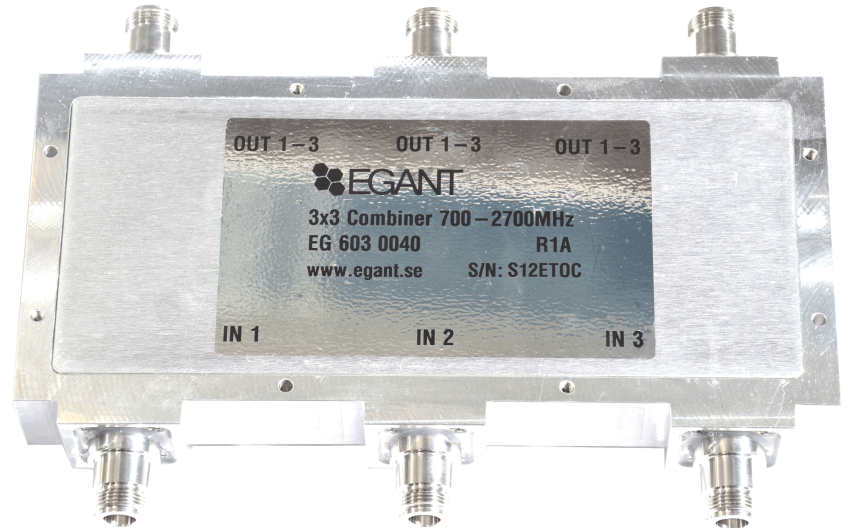
EG 603 0092

EG 603 0040

EG 603 0039



3x3 Combiner 4.8dB 376 - 960 MHz



Combines up to 3 RBSs into the same antenna system

The 3x3 combiner enables the connection of 3 Radio Base Stations to the combiner. The combiner combines the signal and equally splits the signals between the antenna ports.

This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Innovative design

The 3x3 combiner is a broad band and low loss product design. It is intentionally designed for low insertion loss and low intermodulation.

The benefits of using our 3x3 combiner are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the 3x3 Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0091	EG 603 0092
Passband:	376 - 960 MHz	376 - 960 MHz
Coupling:	5.0 +/- 1.0 dB	5.0 +/- 1.0 dB
Input return loss:	> 20.0 dB	> 20.0 dB
Isolation between ports:	> 25 dB (30 dB typ.)	> 25 dB (30 dB typ.)
Intermodulation 2 x 43 dBm:	≤ 107 dBm (150 dBc)	≤ 107 dBm (150 dBc)
Max input power/port:	60 W	60 W
Max peak power:	3 kW	3 kW
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	175 x 38 x 195 mm	175 x 38 x 195 mm
Connectors:	N (f)	7/16 (f)
Weight:	2.0 kg	2.0 kg
Environmental Specifications		
Temp. range (normal operation):	-35 to +65° C	-35 to +65° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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www.egant.se



3x3 Combiner 4.8dB 698 - 2700 MHz



Combines up to 3 RBSs into the same antenna system

The 3x3 combiner enables the connection of 3 Radio Base Stations to the combiner. The combiner combines the signal and equally splits the signals between the antenna ports.

This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Innovative design

The 3x3 combiner is a broad band and low loss product design. It is intentionally designed for low insertion loss and low intermodulation.

The benefits of using our 3x3 combiner are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement



3dB Combiners

www.egant.se

Frequency range

3dB Combiners

68-79MHz
150-2700MHz
150-2700MHz
376-960MHz
376-960MHz
376-2200MHz
376-2200MHz
376-2700MHz
376-2700MHz
700-2700MHz
700-2700MHz

Description

3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner
3 dB Combiner

Connector

N(f)
N(f)
7/16(f)
N(f)
7/16(f)
N(f)
7/16(f)
N(f)
7/16(f)
N(f)
7/16(f)

Ordering number

EG 603 0001
EG 603 0074
EG 603 0076
EG 500 8017
EG 500 8018
EG 603 0030
EG 603 0031
EG 603 0072
EG 603 0073
EG 500 8011
EG 500 8010

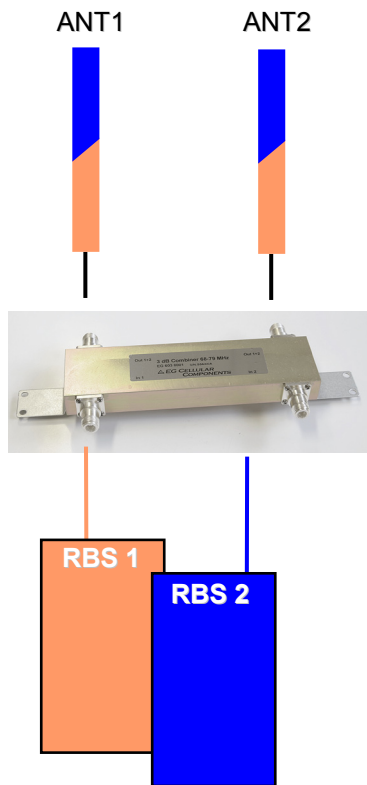
Technical Specifications for the 3x3 Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0039	EG 603 0040
Passband:	698 - 2700 MHz	698 - 2700 MHz
Coupling: (698 - 2200 MHz)	5.0 +/- 0.8 dB	5.0 +/- 0.8 dB
Coupling: (2200 - 2700 MHz)	5.3 +/- 1.3 dB	5.3 +/- 1.3 dB
Input return loss:	> 20.0 dB	> 20.0 dB
Isolation between ports:	> 25 dB (30 dB typ.)	> 23 dB (28 dB typ.)
Intermodulation 2 x 43 dBm:	≤ 107 dBm (150 dBc)	≤ 107 dBm (150 dBc)
Max input power/port:	150 W	150 W
Max peak power:	3 kW	3 kW
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	204 x 32 x 140 mm	204 x 25 x 140 mm
Connectors:	7/16 (f)	N (f)
Weight:	1.6 kg	1.4 kg
Environmental Specifications		
Temp. range (normal operation):	-35 to +65° C	-35 to +65° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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3 dB Combiner 68 - 79 MHz



Combines up to 2 repeaters or RBSs into the same antenna system

The 3 dB combiner enables the connection of 2 repeaters or radio base stations. The combiner combines the signal and equally splits the signals between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple repeaters or RBSs to the shared antennas.

The benefits from installing the 3 dB combiner instead of power splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Innovative design

The 3 dB combiner incorporates a broad band and low loss design. It is specifically designed with low insertion loss and intermodulation in mind. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.



EG 699 0006

Bracket for EGANT Cellular Components combiner.

Technical Specifications for the 3 dB Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 603 0001
Passband:	68 - 79 MHz
Isolation between ports:	≥ 30 dB
Input return loss:	> 20.0 dB
Coupling:	3.1 ± 0.2 dB
Max input power/port:	120 W
3 rd order intermodulation: IM3, 2 x 43 dBm:	< -97 dBm, 140 dBc
Impedance in/out:	50 Ohm

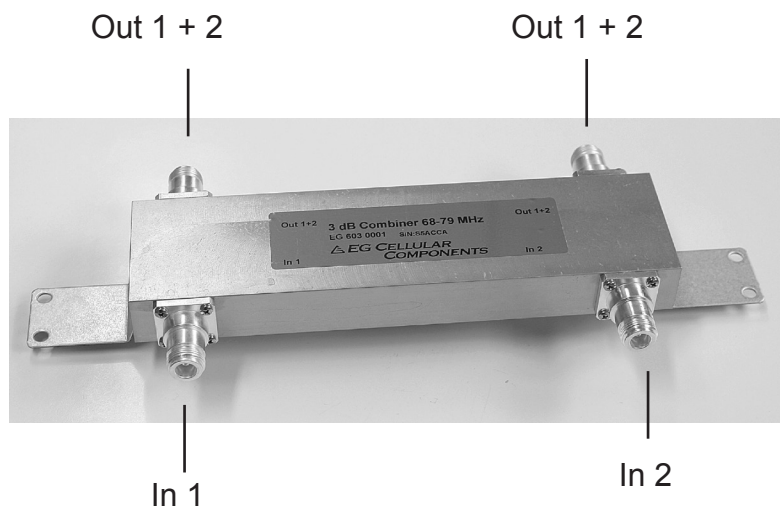
Mechanical Specifications

Dimensions (W x H x D):	190 x 25 x 82 mm
Connectors:	N (f)

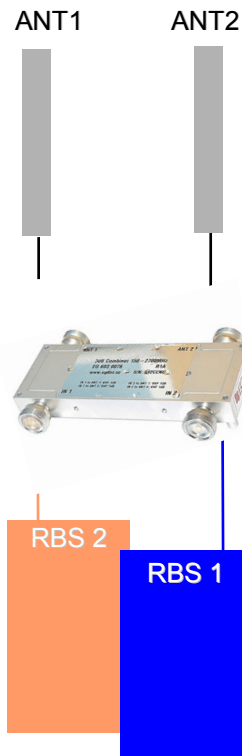
Environmental Specifications

Temp. range (normal operation):	-30 to +70° C
Humidity:	Relative 5 - 100%
Sealing:	IP65
Installation bracket:	EG 699 0006
Material:	Aluminum Zinc

Egant reserves the right to change this product specification at any time without notice.



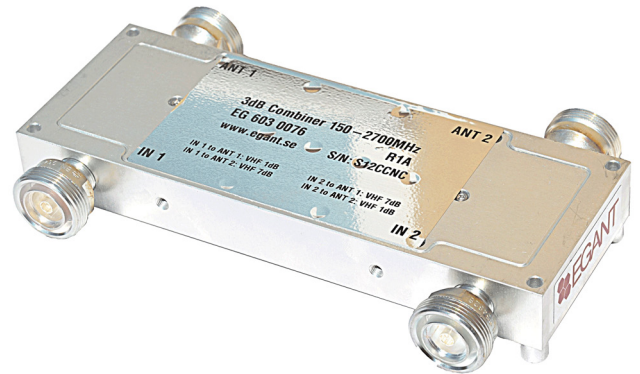
Egant Cellular Components
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Combines up to 2 repeaters or RBSs into the same antenna system

The 3 dB combiner enables the connection of 2 repeaters or radio base stations. The combiner combines the signal and equally splits the signals between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple repeaters or RBSs to the shared antennas.

**3 dB Combiner, Broad Band
150 - 2700 MHz
VHF, TETRA, GSM900, GSM1800,
UMTS, LTE**



Innovative design

The 3dB combiner incorporates a broad band and low loss design. It is specifically designed with low insertion loss and intermodulation in mind. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

The benefits from installing the 3 dB combiner instead of power splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the 3 dB Combiner

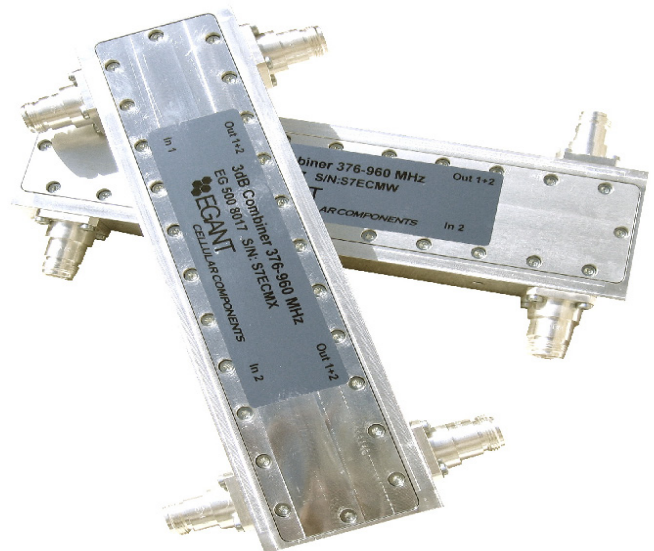
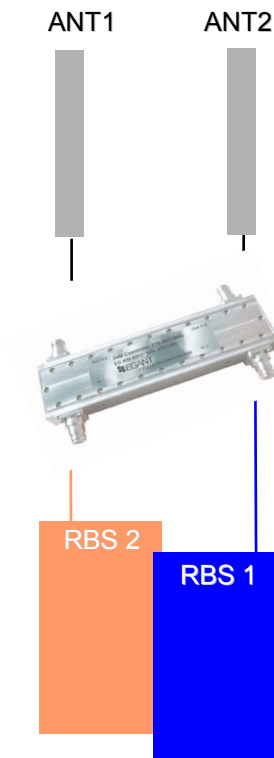
Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0074	EG 603 0076
Passband:	150 - 2700 MHz	150 - 2700 MHz
Isolation between ports: 150 - 2700 MHz:	≥ 24 dB (typ 30 dB)	≥ 24 dB (typ 30 dB)
Input return loss: 150 - 2500 MHz >2500 - 2700 MHz	> 18.0 dB > 16.0 dB, typ 18 dB	> 18.0 dB > 16.0 dB, typ 18 dB
Coupling:		
Input 1: 150 - 160 MHz - Ant 1	1.0 $\pm$ 0.3 dB	1.0 $\pm$ 0.3 dB
Input 1: 150 - 160 MHz - Ant 2	7.1 $\pm$ 0.3 dB	7.1 $\pm$ 0.3 dB
Input 2: 150 - 160 MHz - Ant 1	7.1 $\pm$ 0.3 dB	7.1 $\pm$ 0.3 dB
Input 2: 150 - 160 MHz - Ant 2	1.0 $\pm$ 0.3 dB	1.0 $\pm$ 0.3 dB
376 - 2500 MHz >2500 - 2700 MHz	3.1 $\pm$ 0.3 dB 3.3 $\pm$ 0.4 dB	3.1 $\pm$ 0.3 dB 3.3 $\pm$ 0.4 dB
Max input power/port:	200 W	200 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	< - 150dBc	< - 150dBc
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	215 x 26 x 115 mm	215 x 26 x 115 mm
Connectors:	N (f)	7/16 (f)
Weight:	1 Kg	1 Kg
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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3 dB Combiner, Broad Band 376 - 960 MHz TETRA, GSM900



Combines up to 2 repeaters or RBSs into the same antenna system

The 3 dB combiner enables the connection of 2 repeaters or radio base stations. The combiner combines the signal and equally splits the signals between the antenna ports. This is a highly desirable function when designing shared antenna systems wishing to connect multiple repeaters or RBSs to the shared antennas.



EG 699 0006

Bracket for EGANT Cellular Components combiner.

Innovative design

The 3 dB combiner is designed for low insertion loss and low intermodulation. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

The benefits from installing the 3 dB combiner instead of hybrid combiners and splitters are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the 3 dB Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 500 8017	EG 500 8018
Passband:	376 - 500 MHz, 876 - 960 MHz	376 - 500 MHz, 876 - 960 MHz

Isolation between ports:

376 - 500MHz	≥ 30 dB (typ 33 dB)	≥ 30 dB (typ 33 dB)
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876 - 960MHz	≥ 26 dB (typ 30 dB)	≥ 26 dB (typ 30 dB)
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Input return loss:	> 20.0 dB	> 20.0 dB
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Coupling:	3.1 ± 0.4 dB	3.1 ± 0.4 dB
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Max input power/port:	120 W	120 W
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3rd order intermodulation:

IM3, 2 x 43 dBm:	< -110 dBm (153dBc)	< -110 dBm (153dBc)
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Impedance in/out:	50 Ohm	50 Ohm
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Mechanical Specifications

Dimensions (W x H x D):	190 x 25 x 82 mm	190 x 42 x 82 mm
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Connectors:	N (f)	7/16 (f)
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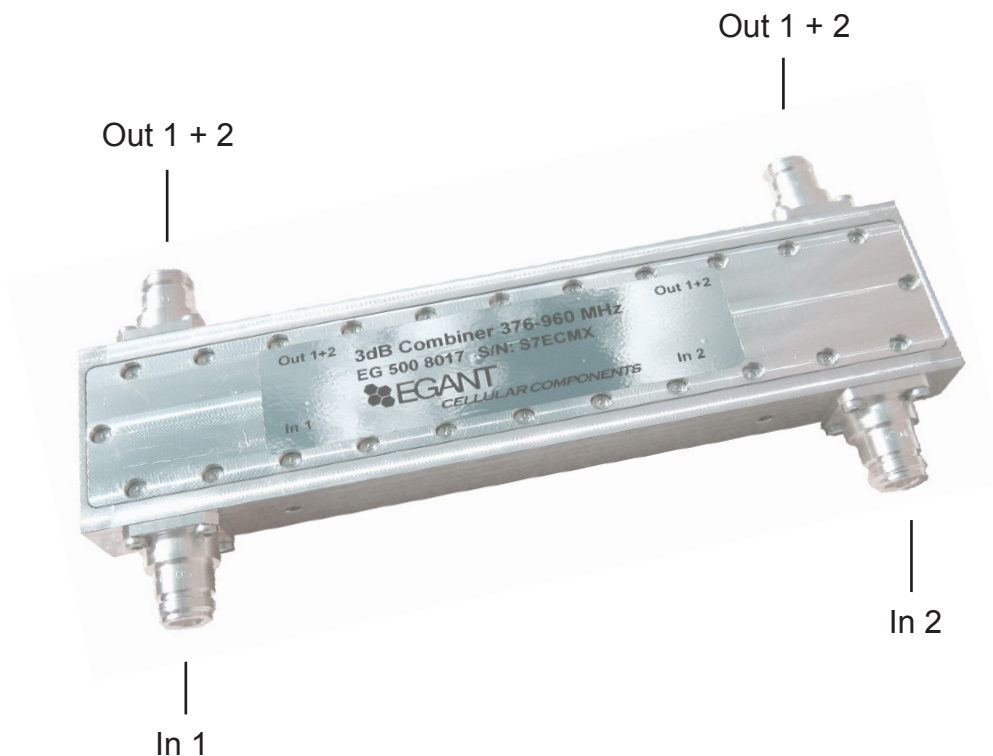
Environmental Specifications

Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
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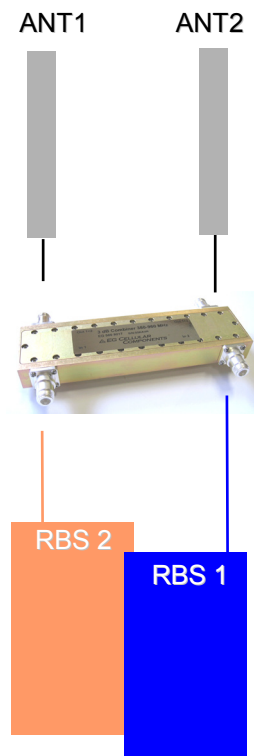
Humidity:	Relative 5 - 100%	Relative 5 - 100%
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Sealing:	IP65	IP65
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**3 dB Combiner, Broad Band
376 - 2200 MHz
TETRA, GSM900, GSM1800, UMTS**

Innovative design

The 3dB combiner incorporates a broad band and low loss design. It is specifically designed with low insertion loss and intermodulation in mind. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

**Combines up to 2 repeaters or RBSs
into the same antenna system**

The 3 dB combiner enables the connection of 2 repeaters or radio base stations. The combiner combines the signal and equally splits the signals between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple repeaters or RBSs to the shared antennas.

**The benefits from installing the 3 dB
combiner instead of power splitters
are:**

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

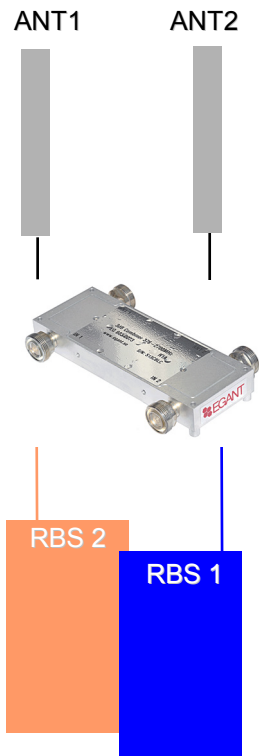
Technical Specifications for the 3 dB Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0030	EG 603 0031
Passband:	376 - 2200 MHz	376 - 2200 MHz
Isolation between ports:		
376 - 1500 MHz:	≥ 25 dB (typ 30 dB)	≥ 25 dB (typ 30 dB)
1500 - 2200 MHz:	> 20 dB (typ 25 dB)	> 20 dB (typ 25 dB)
Input return loss:		
376 - 1500 MHz	> 20.0 dB	> 20.0 dB
1500 - 2200 MHz	> 18.0 dB	> 18.0 dB
Coupling:	3.1 ± 0.2 dB	3.1 ± 0.2 dB
Max input power/port:	200 W	200 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	< -97 dBm	< -97 dBm
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	215 x 26 x 115 mm	215 x 26 x 115 mm
Connectors:	N (f)	7/16 (f)
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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**3 dB Combiner, Broad Band
376 - 2700 MHz
TETRA, GSM900, GSM1800, UMTS
LTE**



Innovative design

The 3dB combiner incorporates a broad band and low loss design. It is specifically designed with low insertion loss and intermodulation in mind. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

**Combines up to 2 repeaters or RBSs
into the same antenna system**

The 3 dB combiner enables the connection of 2 repeaters or radio base stations. The combiner combines the signal and equally splits the signals between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple repeaters or RBSs to the shared antennas.

**The benefits from installing the 3 dB
combiner instead of power splitters
are:**

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the 3 dB Combiner

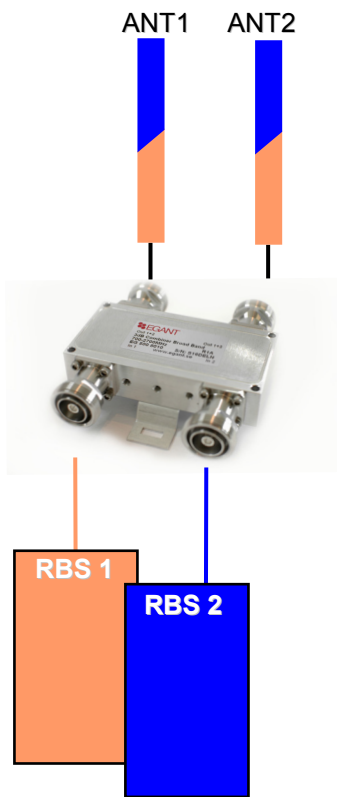
Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0072	EG 603 0073
Passband:	376 - 2700 MHz	376 - 2700 MHz
Isolation between ports:		
376 - 1500 MHz:	≥ 25 dB (typ 30 dB)	≥ 25 dB (typ 30 dB)
1500 - 2700 MHz:	> 20 dB (typ 25 dB)	> 20 dB (typ 25 dB)
Input return loss:		
376 - 1500 MHz	> 20.0 dB	> 20.0 dB
1500 - 2700 MHz	> 18.0 dB	> 18.0 dB
Coupling:	3.1 ± 0.3 dB	3.1 ± 0.3 dB
Max input power/port:	200 W	200 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	< -97 dBm	< -97 dBm
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	215 x 26 x 115 mm	215 x 26 x 115 mm
Connectors:	N (f)	7/16 (f)
Environmental Specifications		
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

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**3 dB Combiner, Broad Band
700 - 2700 MHz
GSM, TDMA, UMTS, W-LAN, LTE**



**Combines up to 2 repeaters or RBSs
into the same antenna system**

The 3 dB combiner enables the connection of 2 repeaters or radio base stations. The combiner combines the signal and equally splits the signals between the antenna ports. This is a highly important function when designing shared antenna systems wishing to connect multiple repeaters or RBSs to the shared antennas.



Innovative design

The 3 dB combiner incorporates a broad band and low loss design. It is specifically designed with low insertion loss and intermodulation in mind. There is no need for terminations or attenuators, which results in very low insertion loss and outstanding intermodulation performance.

**The benefits from installing the 3 dB
combiner instead of power splitters
are:**

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the 3 dB Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications

Product number:	EG 500 8010	EG 500 8011
Passband:	700 - 2700 MHz	700 - 2700 MHz
Isolation between ports:	≥ 30 dB	≥ 30 dB
Input return loss:	> 22.0 dB	> 22.0 dB
Coupling:	3.1 ± 0.3 dB	3.1 ± 0.3 dB
Max input power/port:	240 W	240 W
3 rd order intermodulation:		
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Impedance in/out:	50 Ohm	50 Ohm

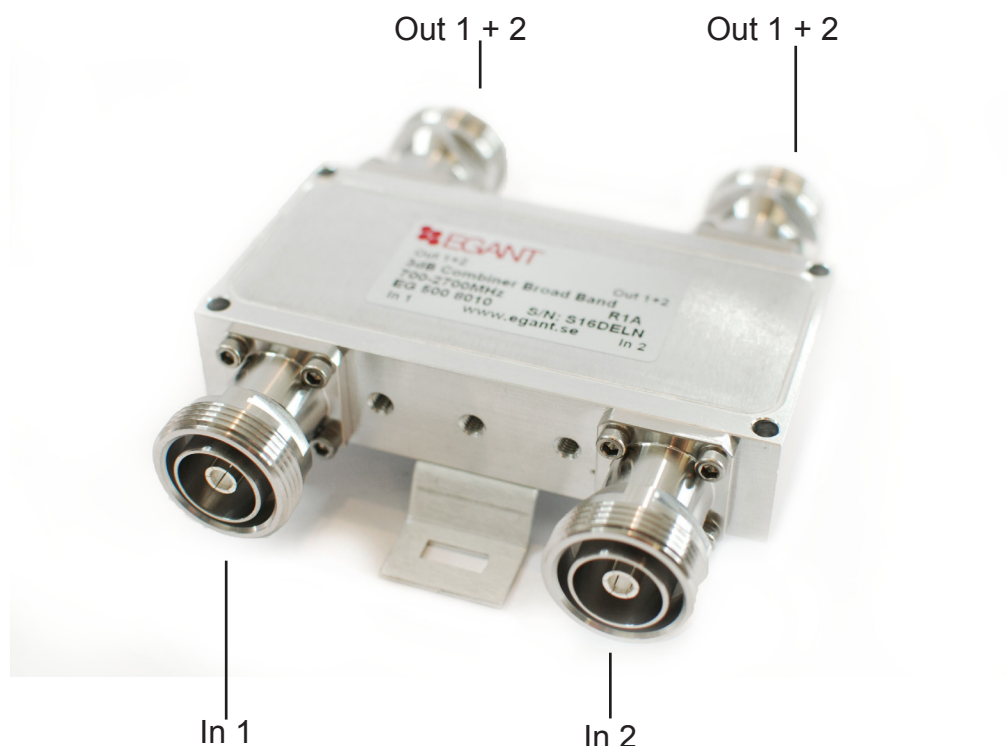
Mechanical Specifications

Dimensions (W x H x D):	135 x 45 x 80 mm	135 x 45 x 80 mm
Connectors:	7/16 (f)	N (f)

Environmental Specifications

Temp. range (normal operation):	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.



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2-Way Combiners

www.egant.se

Frequency range

2-Way Combiner

88-2700MHz
376-500MHz
376-500MHz
376-500MHz
376-500MHz
376-500MHz
376-500MHz
376-500MHz
376-500MHz
800-2170MHz
800-2170MHz
800-2170MHz
800-2170MHz
800-2170MHz
800-2170MHz
800-2170MHz
800-2170MHz

Description

2-Way Combiner
2-Way Combiner 4.7dB
2-Way Combiner 6dB
2-Way Combiner 10dB
2-Way Combiner 4.7dB
2-Way Combiner 6dB
2-Way Combiner 7dB
2-Way Combiner 10dB
2-Way Combiner 4.7dB
2-Way Combiner 6dB
2-Way Combiner 10dB
2-Way Combiner 4.7dB
2-Way Combiner 6dB
2-Way Combiner 7dB
2-Way Combiner 10dB
2-Way Combiner 4.7dB
2-Way Combiner 6dB

Connector

7/16(f)
7/16(f)
7/16(f)
7/16(f)
N(f)
N(f)
N(f)
N(f)
N(f)
7/16(f)
7/16(f)
7/16(f)
N(f)
N(f)
N(f)
N(f)
7/16(m),7/16(f), N(f)
7/16(m),7/16(f), N(f)

Ordering number

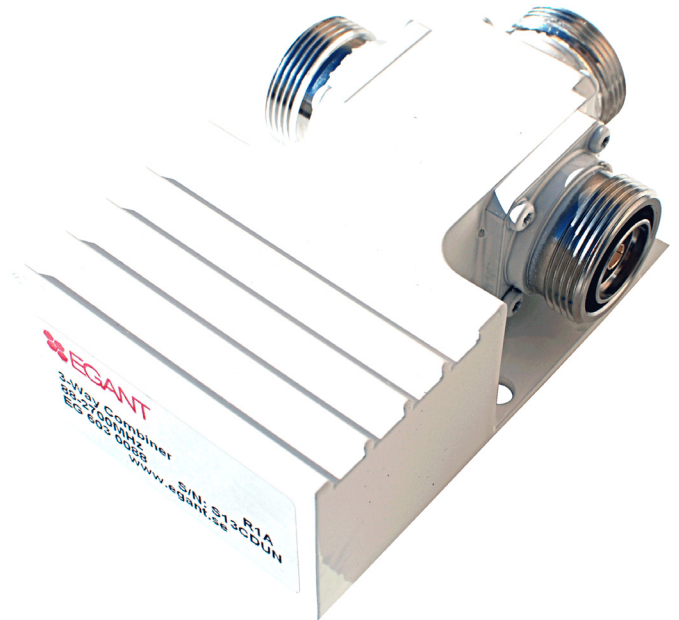
EG 603 0088
EG 100 9104
EG 100 9106
EG 100 9110
EG 100 9304
EG 100 9306
EG 100 9307
EG 100 9310
EG 100 9004
EG 100 9006
EG 100 9010
EG 100 9204
EG 100 9206
EG 100 9207
EG 100 9210
EG 603 0011
EG 603 0012



2-Way Combiner

88 - 2700 MHz

380 - 400 MHz / 1575 - 1576MHz



Combines up to 2 RBSs into the same antenna system

The 2-Way combiner enables the connection of 2 Radio Base Stations to the combiner. The combiner combines the signal and equally splits the signals between the antenna ports.

This is a highly important function when designing shared antenna systems wishing to connect multiple RBSs to the shared antennas.

Innovative design

The 2-Way combiner is a broad band and low loss product design. It is intentionally designed for low insertion loss and low intermodulation.

The benefits of using our 2-Way combiner are:

- Lower insertion loss
- Fewer system components
- Superior antenna isolation
- Greater system quality
- Cost effective design improvement

Technical Specifications for the 2-Way Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications		
Product number:	EG 603 0088	EG 603 0089
Passband:	88 - 2700 MHz	380 - 400 / 1575 - 1576 MHz
Coupling:	3.0 +/- 0.2 dB	3.0 +/- 0.2 dB
Input return loss:	> 8.0 dB	> 12.0 dB, typ 16dB
Isolation between ports:	3 dB +/- 1.0 dB	3 dB +/- 1.0 dB
Max input power/port:	200 W	200 W
Max peak power:	3 kW	3 kW
Impedance in/out:	50 Ohm	50 Ohm
Mechanical Specifications		
Dimensions (W x H x D):	100 x 40 x 70 mm	100 x 40 x 70 mm
Connectors:	7/16 (f)	7/16 (f)
Weight:	0,8 kg	0,8 kg
Environmental Specifications		
Temp. range (normal operation):	-35 to +65° C	-35 to +65° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65

Egant reserves the right to change this product specification at any time without notice.

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2-Way Combiner

376 - 500 MHz

800 - 2170 MHz

TETRA, GSM900, GSM1800, DCS, UMTS



Combining with optimization

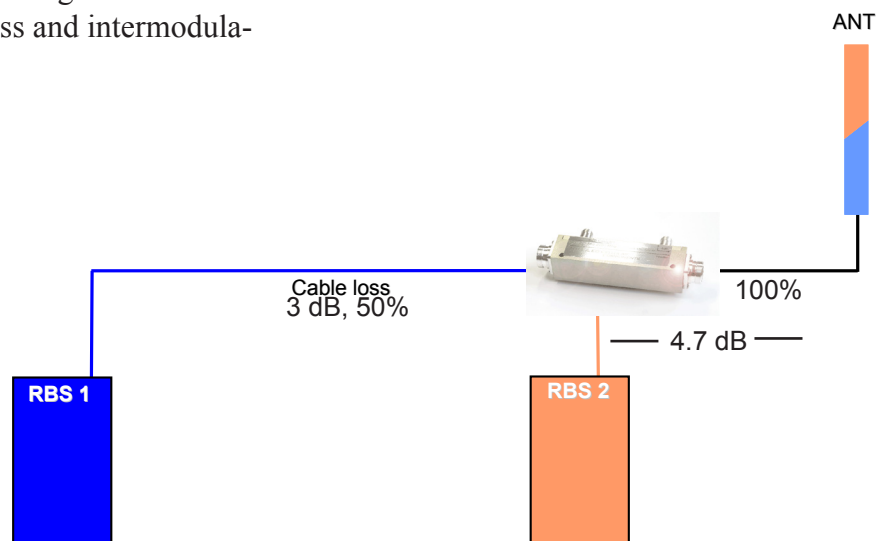
Do you have radio base stations or repeaters in separate locations? Egant has the solution. Our 2-way combiner enables you to optimize your system by compensating for the added cable loss in addition to combining the signals into one point with equal power, adding control over signal strength to the antenna.

Innovative design

This 2-way combiner incorporates a broad band and low loss product design. It is designed for low insertion loss and intermodulation.

The benefits from installing the 2-way combiner are:

- Higher antenna isolation
- Lower insertion loss
- Fewer system components
- Higher system quality
- Cost-effective design improvement



Technical Specifications for the 2-Way Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications			
Product number:	EG 100 9004	EG 100 9006	EG 100 9010
Passband:	800 - 2170 MHz	800 - 2170 MHz	800 - 2170 MHz
Isolation between ports:	≥ 30 dB	≥ 30 dB	≥ 30 dB
Input return loss:	> 20.0 dB	> 20.0 dB	> 20.0 dB
Coupling in 1 - out:	1.8 ± 0.3 dB	1.2 ± 0.3 dB	1.0 ± 0.3 dB
Coupling in 2 - out:	4.7 ± 0.3 dB	6.0 ± 0.3 dB	10.0 ± 0.3 dB
Max input power/port:	70 W	70 W	70 W
3 rd order intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications			
Dimensions (W x H x D):	140 x 80 x 40 mm	140 x 80 x 40 mm	140 x 80 x 40 mm
Connectors:	7/16 (f)	7/16 (f)	7/16 (f)
Environmental Specifications			
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP68	IP68	IP68

Electrical Specifications			
Product number:	EG 100 9104	EG 100 9106	EG 100 9110
Passband:	376 - 500 MHz	376 - 500 MHz	376 - 500 MHz
Isolation between ports:	≥ 30 dB	≥ 30 dB	≥ 30 dB
Input return loss:	> 20.0 dB	> 20.0 dB	> 20.0 dB
Coupling in 1 - out:	1.8 ± 0.15 dB	1.2 ± 0.15 dB	1.0 ± 0.15 dB
Coupling in 2 - out:	4.7 ± 0.15 dB	6.0 ± 0.15 dB	10.0 ± 0.15 dB
Max input power/port:	70 W	70 W	70 W
3 rd order intermodulation:			
IM3, 2 x 43 dBm:	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)	≤ -110 dBm (153 dBc)
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications			
Dimensions (W x H x D):	140 x 80 x 40 mm	140 x 80 x 40 mm	140 x 80 x 40 mm
Connectors:	7/16 (f)	7/16 (f)	7/16 (f)
Environmental Specifications			
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP68	IP68	IP68

Installation support	
Installation bracket: EG 699 0007	(Order separately)

Egant reserves the right to change this product specification at any time without notice.

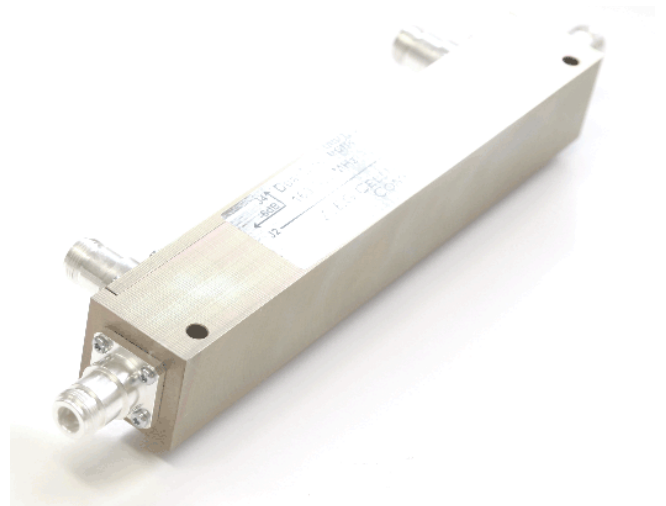
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2-Way Combiner

376 - 500 MHz

800 - 2170 MHz

TETRA, GSM900, GSM1800, DCS, UMTS



Combining with optimization

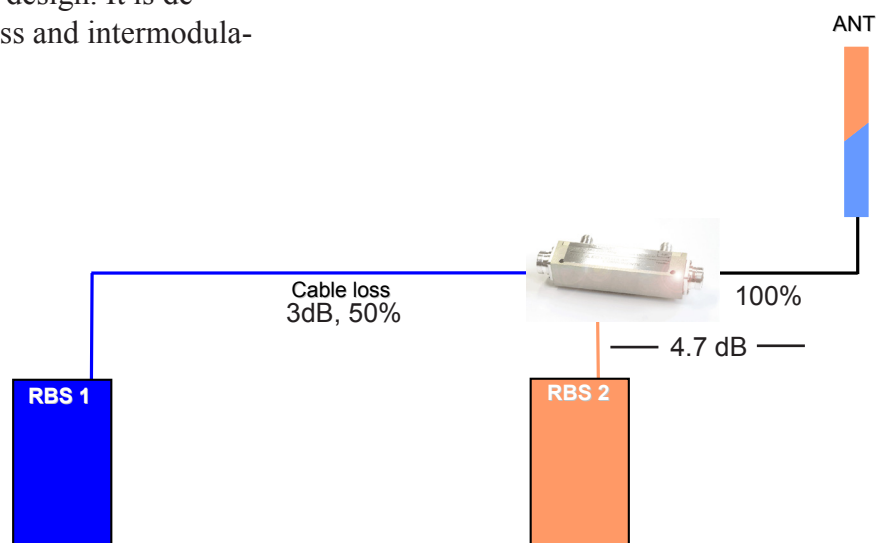
Do you have radio base stations or repeaters in separate locations? Egant has the solution. Our 2-way combiner enables you to optimize your system by compensating for the added cable loss in addition to combining the signals into one point with equal power, adding control over signal strength to the antenna.

Innovative design

This 2-way combiner incorporates a broad band and low loss product design. It is designed for low insertion loss and intermodulation.

The benefits from installing the 2-way combiner are:

- Higher antenna isolation
- Lower insertion loss
- Fewer system components
- Higher system quality
- Cost-effective design improvement



Technical Specifications for the 2-Way Combiner

Below are some typical data. For more detailed information, please contact us.

Electrical Specifications				
Product number:	EG 100 9204	EG 100 9206	EG 100 9207	EG 100 9210
Passband:	800 - 2170 MHz	800 - 2170 MHz	800 - 2170 MHz	800 - 2170 MHz
Isolation between ports:	≥ 30 dB	≥ 30 dB	≥ 30 dB	≥ 30 dB
Input return loss:	> 20.0 dB	> 20.0 dB	> 20.0 dB	> 20.0 dB
Coupling in 1 - out:	1.8 ± 0.3 dB	1.2 ± 0.3 dB	1.1 ± 0.15 dB	1.0 ± 0.3 dB
Coupling in 2 - out:	4.7 ± 0.3 dB	6.0 ± 0.3 dB	7.0 ± 0.15 dB	10.0 ± 0.3 dB
Max input power/port:	500 W	500 W	500 W	500 W
3 rd order intermodulation:				
IM3, 2 x 43 dBm:	≤ -110 dBm (153dBc)	≤ -110 dBm (153dBc)	≤ -110 dBm (153dBc)	≤ -110 dBm (153dBc)
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications				
Dimensions (W x H x D):	140 x 80 x 40 mm	140 x 80 x 40 mm	140 x 80 x 40 mm	140 x 80 x 40 mm
Connectors:	N (f)	N (f)	N (f)	N (f)
Environmental Specifications				
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP68	IP68	IP68	IP68

Electrical Specifications				
Product number:	EG 100 9304	EG 100 9306	EG 100 9307	EG 100 9310
Passband:	376 - 500 MHz	376 - 500 MHz	376 - 500 MHz	376 - 500 MHz
Isolation between ports:	≥ 30 dB	≥ 30 dB	≥ 30 dB	≥ 30 dB
Input return loss:	> 20.0 dB	> 20.0 dB	> 20.0 dB	> 20.0 dB
Coupling in 1 - out:	1.8 ± 0.2 dB	1.2 ± 0.2 dB	1.1 ± 0.2 dB	1.0 ± 0.2 dB
Coupling in 2 - out:	4.7 ± 0.4 dB	6.0 ± 0.4 dB	7.0 ± 0.4 dB	10.0 ± 0.4 dB
Max input power/port:	500 W	500 W	500 W	500 W
3 rd order intermodulation:				
IM3, 2 x 43 dBm:	≤ -110 dBm (153dBc)	≤ -110 dBm (153dBc)	≤ -110 dBm (153dBc)	≤ -110 dBm (153dBc)
Impedance in/out:	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Mechanical Specifications				
Dimensions (W x H x D):	140 x 80 x 40 mm	140 x 80 x 40 mm	140 x 80 x 40 mm	140 x 80 x 40 mm
Connectors:	N (f)	N (f)	N (f)	N (f)
Environmental Specifications				
Temp. range (normal operation):	-30 to +70° C	-30 to +70° C	-30 to +70° C	-30 to +70° C
Humidity:	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%	Relative 5 - 100%
Sealing:	IP65	IP65	IP65	IP65

Installation support	
Installation bracket: EG 699 0007	(Order separately)

Egant reserves the right to change this product specification at any time without notice.

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