



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 Multicasting Matrix (MCM)

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

Electrical Specifications		
Product number:	PW-500-8001	PW-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):	214 x 25 x 110 mm	214 x 25 x 110 mm
Connectors:	N (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

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



The Innovative design.

The 4-way Combiner is a Broadband and Low Loss product design. The 4-Way Combiner is designed for Low Insertion Loss and Inter-modulation.

No terminations or attenuators are included in the 4-way combiner. This results in the very low Insertion Loss and an outstanding Inter-modulation performance.

Combines up to 4 RBSs into the same antenna system

The 4-way combiner enables the connection of 4 Radio Base Stations. The combiner combines the signal and equally splits it between the antenna ports.

The 4-way combiner enables the connection of 4 Radio Base Stations. The combiner combines the signal and equally splits it between the antenna ports.

4-Way Combiner Broadband MCM

For CDMA, GSM, DCS, TDMA, UMTS, LTE



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 Specification for 4-Way Combiner Broadband (MCM)

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

Electrical Specification	<u>PW-500-8005</u>	<u>PW-603-0055</u>	<u>PW-603-0056</u>
Product Number	<u>PW-500-8005</u>	<u>PW-603-0055</u>	<u>PW-603-0056</u>
Passband	800-2200 MHz	700-2700 MHz	700-2700 MHz
Isolation between port	≥25 dB	≥30 dB (typical 35dB)	≥30 dB (typical 35dB)
Input Return Loss	>20 dB	>18 dB	>18 dB
Coupling	6.4 ± 0.7 dB	6.4 ± 0.7 dB	6.4 ± 0.7 dB
Max input power/port	100 Watt	100 Watt	100 Watt
IMD 3 rd order @2x+43dBm	< -105 dBm	< -107 dBm	< -107 dBm
Impedance In/Out	50 Ohm	50 Ohm	50 Ohm
Mechanical Specification			
Dimension (WxHxD)	310x130x130 mm	246x88x215 mm	246x88x215 mm
Connectors	7/16 DIN female	7/16 DIN female	N female
Environmental Specification			
Temperature (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	IP 65	IP 65	IP 65

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