



MAXNET® II

Platinum Series



Patented
U.S.# 7,142,414

3RU Active Chassis
(front view)

Passive Modules

Splitting/Combining Modules

Features

- 16-way, 8-way, 6-way, 4-way, dual 4-way, and triple 2-way universal splitting/combining modules
- Ultra-dense form factor - incredible space savings (24 8-ways in 3RU chassis)
- Front access -20 dB dual test points (split/combine) on selected modules
- Front access to plug-in locations for pads and EQs
- High performance MCX connector receptacles

D3.1/CCAP™
Compliant

1.2 GHz

- 5-1002 MHz operation
- Optimized RF performance
- 16-way takes up two slots and all other module types take up one slot in MAXNET® II chassis (total of 24 slots)

Specifications

		MP16 ⁽¹⁾	MP8 ⁽¹⁾	MP6C	MP5C6	MP4C / MP4-2xx ⁽²⁾	MP2-3 ⁽²⁾	MP2C2S-2 ⁽²⁾
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)	QA (dB)
INSERTION LOSS & FLATNESS	5-10 MHz	17.2 +/- 0.5	13 +/- 0.5	9 +/- 0.5	8.5 +/- 0.5	7.1 +/- 0.5	3.3 +/- 0.5	7.1 +/- 0.5
	10-50 MHz	17.2 +/- 0.5	13 +/- 0.5	9 +/- 0.5	8.5 +/- 0.5	7.1 +/- 0.5	3.4 +/- 0.5	7.2 +/- 0.5
	50-200 MHz	17.2 +/- 0.5	13 +/- 0.5	9 +/- 0.5	8.5 +/- 0.5	7.4 +/- 0.5	3.6 +/- 0.5	7.3 +/- 0.5
	200-550 MHz	17.2 +/- 0.7	13 +/- 0.6	9.5 +/- 0.6	9 +/- 0.6	7.7 +/- 0.5	3.8 +/- 0.5	7.6 +/- 0.5
	550-750 MHz	17.2 +/- 1	13 +/- 0.8	10 +/- 0.8	9.5 +/- 0.8	8.2 +/- 0.5	4 +/- 0.5	8.2 +/- 0.5
	750-860 MHz	17.2 +/- 1.2	13 +/- 0.9	10.5 +/- 0.9	9.5 +/- 0.9	8.4 +/- 0.6	4.2 +/- 0.6	8.8 +/- 0.6
	860-1002 MHz	17.2 +/- 1.5	13.3 +/- 1	11 +/- 1.2	9.5 +/- 1	8.8 +/- 0.7	4.4 +/- 0.7	9.4 +/- 0.7
TEST PORT LOSS & FLATNESS ⁽³⁾	5-10 MHz	20 +/- 0.7	20 +/- 0.7	20 +/- 0.7	n/a	20 +/- 0.7	n/a	20 +/- 0.7
	10-50 MHz	20 +/- 0.5	20 +/- 0.5	20 +/- 0.5	n/a	20 +/- 0.5	n/a	20 +/- 0.5
	50-200 MHz	20 +/- 0.5	20 +/- 0.5	20 +/- 0.5	n/a	20 +/- 0.5	n/a	20 +/- 0.5
	200-550 MHz	20 +/- 0.5	20 +/- 0.5	20 +/- 0.5	n/a	20 +/- 0.5	n/a	20 +/- 0.5
	550-750 MHz	20 +/- 0.6	20 +/- 0.6	20 +/- 0.6	n/a	20 +/- 0.6	n/a	20 +/- 0.6
	750-860 MHz	20 +/- 0.8	20 +/- 0.8	20 +/- 0.8	n/a	20 +/- 0.8	n/a	20 +/- 0.8
	860-1002 MHz	20 +/- 1	20 +/- 1	20 +/- 1	n/a	20 +/- 1	n/a	20 +/- 1
ISOLATION (Min) PORT-TO-PORT	5-1002 MHz	30	30	30	30	30	30	28
RETURN LOSS (Min) ANY PORT	5-10 MHz	18	18	18	18	18	18	18
	10-1002 MHz	20	20	20	20	20	20	20
RFI (Min)	5-1002 MHz	100	100	100	100	100	100	100
OPERATING TEMPERATURE		0°C to +50°C (+32°F to +122°F)						
HUMIDITY		5-95% (without condensation)						
DIMENSIONS		4.9"H x 1.4"W x 9.4"D (12.45H x 3.56W x 23.88D cm)		4.9"H x 0.69"W x 9.4"D (12.45H x 1.75W x 23.88D cm)				
WEIGHT		2.42 lbs (1.1 kg)		1.85 lbs (0.84 kg)				

NOTES:

(1) Unit uses internal EQ for flattening loss.

(2) Device to device isolation > 75 dB.

(3) Measured relative to common port (and with inserted Pad/EQ = 0 dB in common port).

Specifications

		MP6-12DC	MP6-12DCH
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)
INSERTION LOSS (IN-OUT)	5-10 MHz	3.1 +/- 0.3	4.2 +/- 0.3
	10-50 MHz	3 +/- 0.3	4.2 +/- 0.3
	50-200 MHz	3 +/- 0.3	4.2 +/- 0.3
	200-400 MHz	3.4 +/- 0.3	4.4 +/- 0.3
	400-550 MHz	3.7 +/- 0.4	4.4 +/- 0.4
	550-750 MHz	4.2 +/- 0.4	4.5 +/- 0.4
	750-860 MHz	4.7 +/- 0.4	4.7 +/- 0.4
	860-1002 MHz	5.2 +/- 0.5	5.2 +/- 0.5
	1002-1218 MHz		5.2 +/- 0.7
INSERTION LOSS (PORT-OUT)	5-10 MHz	15.4 +/- 1	16 +/- 1
	10-50 MHz	15.4 +/- 1	16 +/- 1
	50-200 MHz	15.5 +/- 1	16 +/- 1
	200-550 MHz	15.6 +/- 1	16 +/- 1
	550-750 MHz	16 +/- 1	16 +/- 1
	750-860 MHz	16.3 +/- 1	16.5 +/- 1
	860-1002 MHz	16.6 +/- 1	16.6 +/- 1
	1002-1218 MHz		16.8 +/- 1
ISOLATION (Min) (PORT to PORT)	5-10 MHz	34	34
	10-50 MHz	34	34
	50-200 MHz	34	34
	200-550 MHz	34	34
	550-750 MHz	34	34
	750-860 MHz	34	34
	860-1002 MHz	34	34
	1002-1218 MHz		34

		MP6-12DC	MP6-12DCH
MEASUREMENT	FREQUENCY	QA (dB)	QA (dB)
ISOLATION (Min) (IN-PORT)	5-10 MHz	28	28
	10-50 MHz	28	28
	50-200 MHz	28	28
	200-550 MHz	28	28
	550-750 MHz	28	28
	750-860 MHz	28	28
	860-1002 MHz	28	28
	1002-1218 MHz		28
RETURN LOSS (Min) (PORTS IN & OUT)	5-10 MHz	16	16
	10-50 MHz	18	18
	50-200 MHz	18	18
	200-550 MHz	18	18
	550-750 MHz	18	18
	750-860 MHz	18	18
	860-1002 MHz	18	18
	1002-1218 MHz		18
RFI (Min)	5-1218 MHz	100	
OPERATING TEMPERATURE		0°C to +50°C (+32°F to +122°F)	
HUMIDITY		5-95% (without condensation)	
DIMENSIONS		4.9"H x 0.69"W x 9.4"D (12.45H x 1.75W x 23.88D cm)	
WEIGHT		1.85 lbs (0.84 kg)	

Specifications

		MP8H ⁽¹⁾			MP6CH			MPSC6H		
MEASUREMENT	MHz	MIN (dB)	NOM (dB)	MAX (dB)	MIN (dB)	NOM (dB)	MAX (dB)	MIN (dB)	NOM (dB)	MAX (dB)
INSERTION LOSS	5		10.5	11.5		8	9.5		8	9
	50		10.6	11.6		8.1	9.6		8.1	9.1
	550		12.1	12.8		9.8	10.8		8.8	9.8
	870		13	13.6		10.9	11.6		9.2	10.2
	1002		13.4	14		11.3	12		9.4	10.4
	1218		14	14.5		12	12.5		9.7	10.7
FLATNESS	50-1218		< 0.6	< 0.8		< 0.4	< 0.7		< 0.4	< 0.7
TEST PORT LOSS & FLATNESS ⁽²⁾	50-1218	19	20	21	19	20	21	n/a	n/a	n/a
ISOLATION (Min) PORT-TO-PORT	50-1218	30	32		30	32		30	32	
RETURN LOSS (Min) ANY PORT	5-50	16	18		16	18		16	18	
	50-1002	20	22		20	22		20	22	
	1002-1218	18	20		18	20		18	20	
RFI (Min)	5-1218	100			100			100		
OPERATING TEMPERATURE		0°C to +50°C (+32°F to +122°F)								
HUMIDITY		5-95% (without condensation)								
DIMENSIONS		4.9"H x 0.69"W x 9.4"D (12.45H x 1.75W x 23.88D cm)								
WEIGHT		1.85 lbs (0.84 kg)								

NOTES:

(1) Device to device isolation > 75 dB.

(2) Test point is relative to the common.

Specifications

MEASUREMENT	MHz	MP4CH / MP4-2xxH ⁽¹⁾			MP2C2S-2H ⁽¹⁾			MP2-3H ⁽¹⁾			MP2-3PH		
		MIN (dB)	NOM (dB)	MAX (dB)	MIN (dB)	NOM (dB)	MAX (dB)	MIN (dB)	NOM (dB)	MAX (dB)	MIN (dB)	NOM (dB)	MAX (dB)
INSERTION LOSS	5		7	7.9		8	9		3.3	3.8		3.5	4.0
	50		7.1	8		7.7	8.5		3.4	3.9		3.6	4.1
	550		8.1	8.6		8.7	9.3		4	4.5		4.2	4.7
	870		8.8	9.3		9.5	10.0		4.4	4.9		4.7	5.2
	1002		9.1	9.6		9.7	10.2		4.5	5		4.8	5.3
	1218		9.5	10.3		10.2	10.7		4.8	5.3		5.2	5.7
FLATNESS	50-1218		< 0.4	< 0.6		< 0.4	< 0.6		< 0.4	< 0.6		< 0.4	< 0.6
TEST PORT LOSS & FLATNESS ⁽²⁾	50-1218	19	20	21	19	20	21	n/a	n/a	n/a		n/a	n/a
ISOLATION (Min) PORT-TO-PORT	50-1218	30	32		30	32		30	32				
RETURN LOSS (Min) ANY PORT	5-50	16	18		16	18		16	18				
	50-1002	20	22		20	22		20	22				
	1002-1218	18	20		18	20		18	20				
RFI (Min)	5-1218	100			100			100					
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)												
HUMIDITY	5-95% (without condensation)												
DIMENSIONS	4.9"H x 0.69"W x 9.4"D (12.45H x 1.75W x 23.88D cm)												
WEIGHT	1.85 lbs (0.84 kg)												

NOTES:

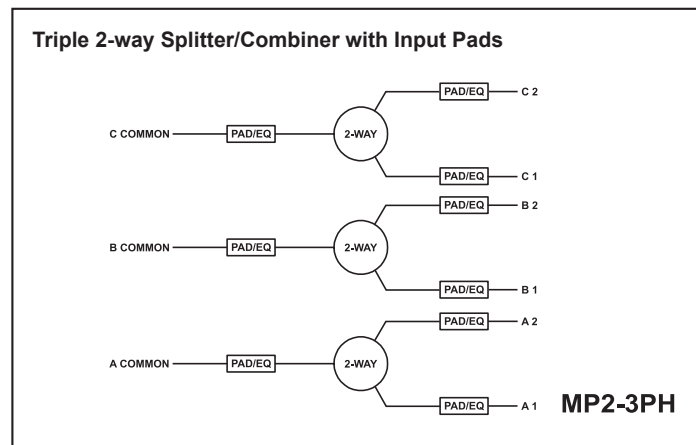
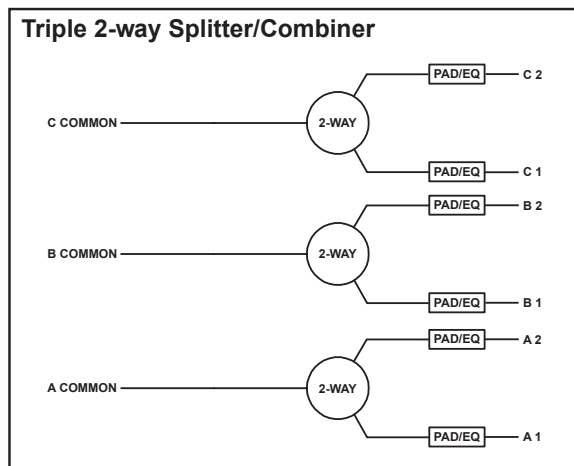
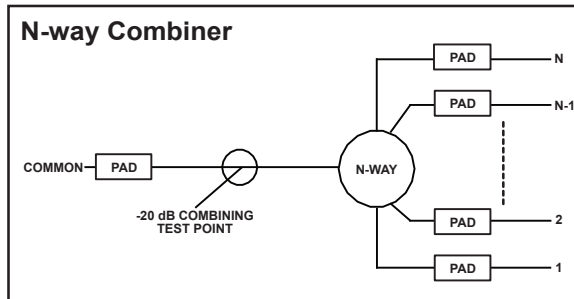
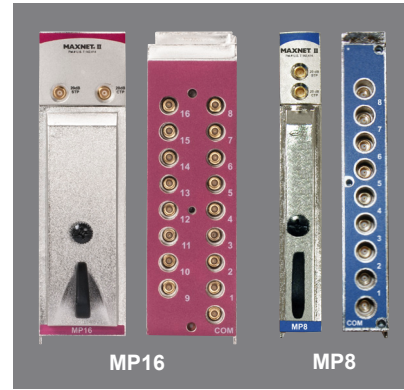
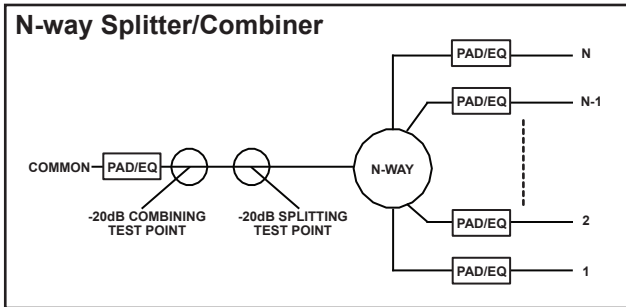
(1) Device to device isolation > 75 dB.

(2) Test point is relative to the common.

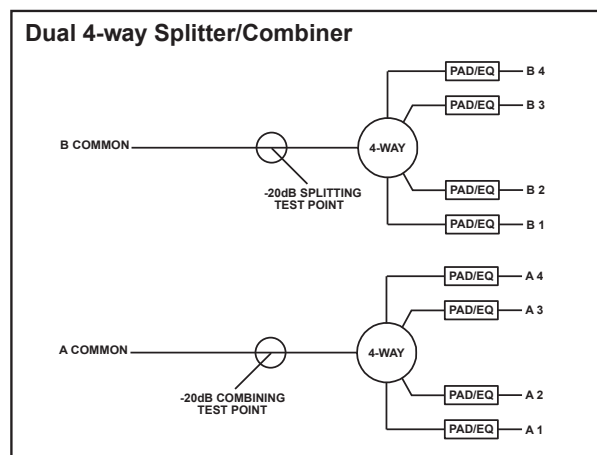
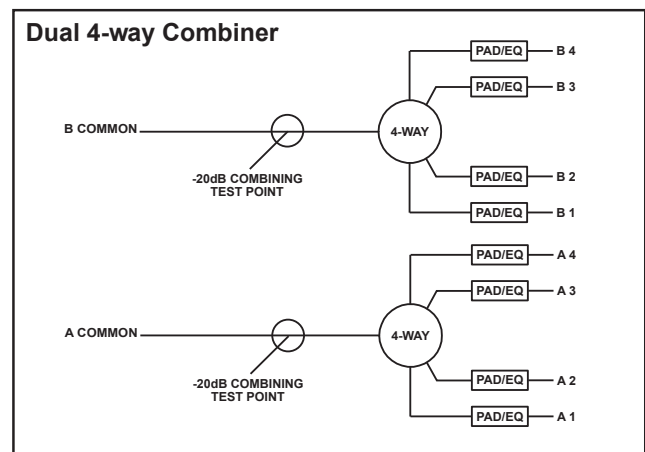
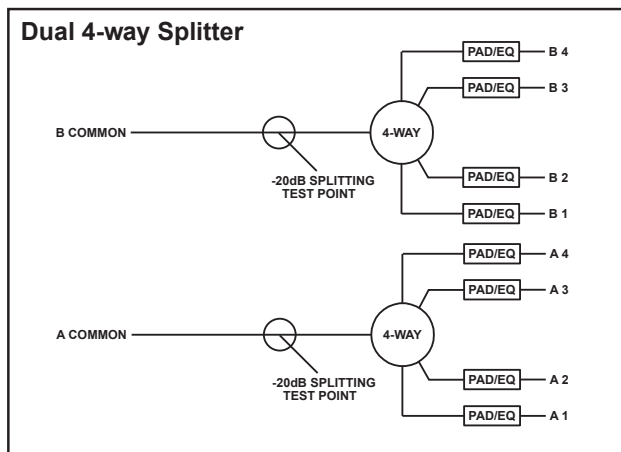
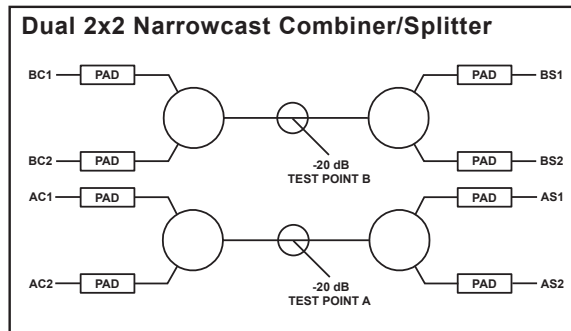
Ordering Information

Part Number	Description
MP16	16-way Splitter/Combiner
MP8	8-way Splitter/Combiner, 1 GHz
MP8H	8-way Splitter/Combiner, 1.218 GHz
MP6-12DC	6x 12 dB Cascaded Directional Coupler Combiner, 1 GHz
MP6-12DCH	6x 12 dB Cascaded Directional Coupler Combiner, 1.218 GHz
MPSC6	Low Loss 6-way Splitter/Combiner, 1 GHz
MPSC6H	Low Loss 6-way Splitter/Combiner, 1.218 GHz
MP6C	6-way Combiner, 1 GHz
MP6CH	6-way Combiner, 1.218 GHz
MP4C	4-way Combiner, 1 GHz
MP4CH	4-way Combiner, 1.218 GHz
MP4-2S	Dual 4-way Splitter, 1 GHz
MP4-2SH	Dual 4-way Splitter, 1.218 GHz
MP4-2C	Dual 4-way Combiner, 1 GHz
MP4-2CH	Dual 4-way Combiner, 1.218 GHz
MP4-2SC	Dual 4-way Splitter/Combiner, 1 GHz
MP4-2SCH	Dual 4-way Splitter/Combiner, 1.218 GHz
MP2-3	Triple 2-way Splitter/Combiner, 1 GHz
MP2-3H	Triple 2-way Splitter/Combiner, 1.218 GHz
MP2C2S-2	Dual 2x2 Narrowcast Combiner/Splitter, 1 GHz
MP2-3PH	Triple 2-way Splitter/Combiner with Input Pad, 1.218 MHz
MP2C2S-2H	Dual 2x2 Narrowcast Combiner/Splitter, 1.218 GHz

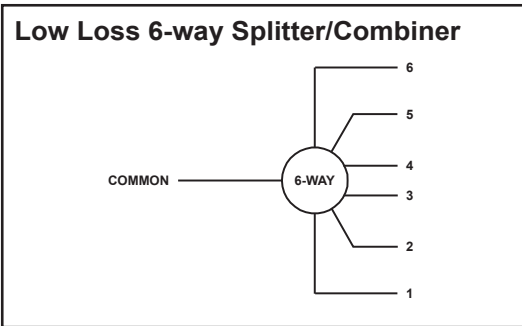
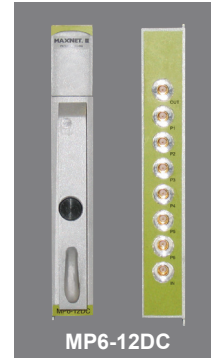
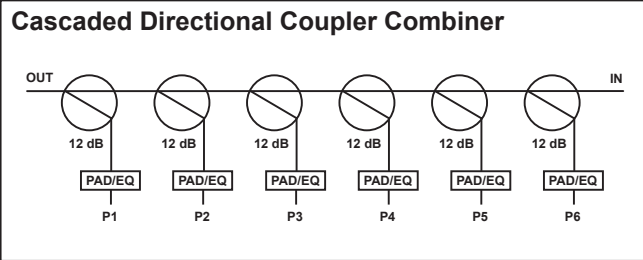
Functional Schematics



Functional Schematics



Functional Schematics



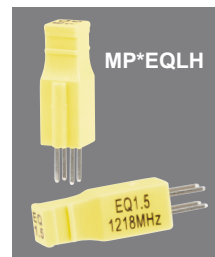
Plug-in Pads/EQs



Attenuator Pads



1 GHz Linear EQs



1.218 GHz Linear EQs

* = Pad/EQ value

Other values may be available. For all Pad/EQ specifications and ordering information, see MAXNET II MCX to F & BNC Adapters data sheet (#ANW0618)

MAXNET® II is a registered trademark of ATX in the United States and/or other countries. Products or features contained herein may be covered by one or more U.S. or foreign patents. Other non-ATX product and company names mentioned in this data sheet are the property of their respective companies.

© 2020 by ATX Networks Corp. and its affiliates (collectively "ATX Networks Corp."). All rights reserved. This material may not be published, broadcast, rewritten, or redistributed. Information in this document is subject to change without notice.
Rev. 10/2020 (ANW0621)



ATX Networks

Tel: 289.204.7800 | Toll-Free: 866.YOUR.ATX | support@atx.com