



MI-171nn

TMA Quad LB BP/PCS/AWS



This picture is showing MI-17101

General Description

Microdata Telecom's TMA provides network operators with a cost effective solution that delivers up to 50% improvement in uplink throughput while reducing dropped connections up to 20%.

The lower interference achieved with Microdata Telecom TMA shifts the traffic to higher coding schemes which further improves network performance and capacity.

The PIM buffer effect of Microdata Telecom TMAs will enable profitable use of spectrum previously avoided due to PIM contamination.

Features & Benefits

- Active LNA on all bands
- Market leading PIM performance (-160 dBc across the product portfolio)
- Efficiently prepare your sites for future expansions
- Fully utilize the capabilities of your ultra-wideband antennas
- Diplexed BTS Port that enable antenna and feeder sharing
- Small and light for minimum visual impact
- Reduce tower loading with up to 75%
- Full AISG operation and RET (Remote Electrical Tilt) antenna support

Specifications

Downlink (TX) Path	PCS	AWS
Frequency Band	1930 - 1990 MHz	2110 - 2200 MHz
Insertion Loss	0.5 dB*	0.3 dB*
Continuous Average Power	200 W (53 dBm)	200 W (53 dBm)
Intermodulation, 2x43 dBm TX Carrier BTS port	165 dBc* in RX band, ANT port	165 dBc* in RX band, ANT port
Uplink (RX) Path		
Frequency Band	1850 - 1910 MHz	1695 -1780 MHz
Gain	12 dB +- 1.0 dB*	12 dB +- 1.0 dB*
Noise Figure	1.3 dB*	1.1 dB*
Insertion Loss, Bypass mode	2.2 dB*	1.5 dB*
Output IP3	25 dBm*	25 dBm*
Bypass path Low Band		
Frequency Band	617 - 869 MHz	
Insertion Loss	0.2 dB	
Continuous Average Power	200 W (53 dBm)	
Intermodulation, 2x43 dBm TX Carrier BTS port	165 dBc* dBm in RX band, ANT port	
Power Supply and Alarm		AISG - Mode
DC		9-30 V DC
Power		< 4 W
Alarm		3GPP/AISG 2.0
Environmental		
Operating Temperature Range	-40 to +65°C -40 to +149°F	
Operation	ETS 300 019-1-4 Class 4.1E	
Storage	ETS 300 019-1-1 Class 1.2	
Ingress Protection	IP67	
Miscellaneous		
EMC	FCC part 15	
MTBF	1.2 Mh/TMA min.	
Mechanical	Twinn	Quad
Dimensions (WxHxD)	344x258x58.5 mm 12.87x10.16x2.3 in	344x258x109 mm 12.87x10.16x4.29 in
Volume	5.2 l	9.7 l
Weight	6.5 kg 14.33 lb	11 kg 24.25 lb
Connectors (See Selection Guide)	AISG Female 8 pin circular	
Mounting (Supporter Pole Diameter: 40-140mm)	Hose clamps, arbitrary orientation	
Colour	NCS 1502-R	
Bracket	Included	
* typical		

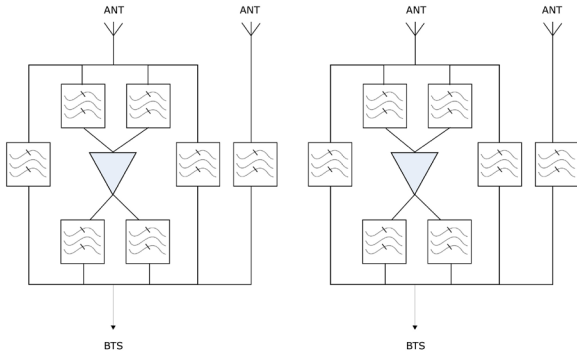
Selection Guide

Model number	AISG		Connector (4.3-10 Female, long neck)		
	Common Mode		4 ANT 2 BTS	8 ANT 4 BTS	AISG
MI-17131	X	ONETWO ¹	X		1x
MI-17132	X	TWOTWO ²	X		1x
MI-17141	X	ONETWO ¹		X	2x
MI-17142	X	TWOTWO ²		X	2x

¹ONETWO: the TMA is identified as 1 logic unit with 2 subunits

²TWOTWO: the TMA is identified as 2 logic units with 2 subunits each

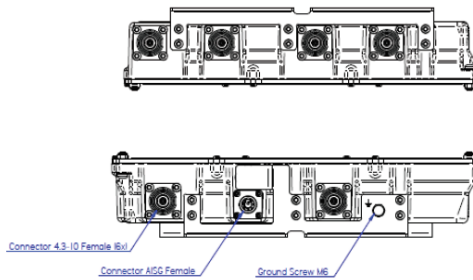
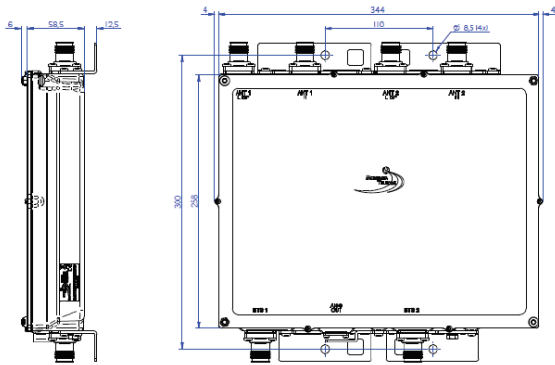
Block Diagram



Mechanical Drawing

This picture is showing MI-15301

Twin version



Quad version

