



MI-536nn

Active Same Band Combiner



MASS™

Microdata Advanced Site Solutions

With our expertise in site system design we are able to provide a solution for any site sharing or upgrade scenario.

Our focus area is RF-filter based solutions including combiners, multi band TMAs, di-, tri- and quadruplexers.

Our product portfolio supports all frequencies for mobile communication bands ranging from 450 MHz to 6 GHz.

Site and network sharing makes it cost efficient to reach sparsely populated areas where new subscribers can contribute to revenue.

MASS™

Advantage

Increases coverage

more traffic & higher ARPU

Increases capacity

more traffic & higher ARPU

Reduces the cost

of network expansion

Minimizes

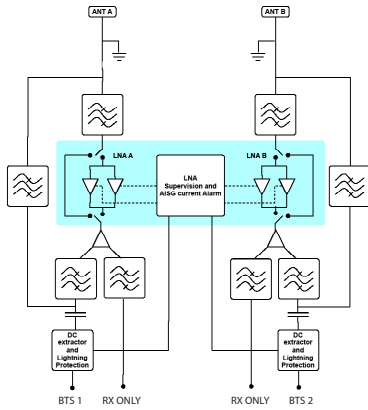
site acquisition issues

Specifications

Downlink (TX) Path		
Frequency Band	1930 - 1990 MHz	
Insertion Loss	0.3 dB*	
Continuous Average Power	250 W (54 dBm)	
Return Loss	>18 dB*	
Intermodulation, 2x43 dBm TX Carrier BTS port	-117 dBm in RX band, ANT port	
System Isolation	>35 dB	
Uplink (RX) Path		
Frequency Band	1850 - 1910 MHz	
Gain	10 dB +- 1.0 dB	
Noise Figure	1.4 dB*	
Insertion Loss, Bypass mode	6.5 dB, including splitter loss	
Return Loss	>18* dB	
Output IP3	22 dBm*	
Power Supply and Alarm		
	Current Alarm Mode	AISG - Mode
Supply Voltage	9 - 15 V **	9 - 30 V
Current Consumption / Power	80 - 130 mA	< 2 W
Alarm	170 - 180 mA	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	EN 301 489-8	
Safety standards	UL 60950	
MTBF	750,000 hours min	
Mechanical		
Dimensions (WxHxD)	168x275x61 mm 6.61x10.83x2.40 in	
Connectors	6x 7/16 f (MI-53601) 6x 4.3-10 f (MI-53631) 1x AISG 8-pin female	
Mounting	Hose clamps, arbitrary orientation	
Volume	2.8 l	
Weight	4.6 kg 10.14 lb	
Colour	NCS 1502-R	
* Typical		
** Both main ports need Supply Voltage in CWA mode		

Block Diagram

Standard with AISG



Mechanical Drawing

