



MI-516nn

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

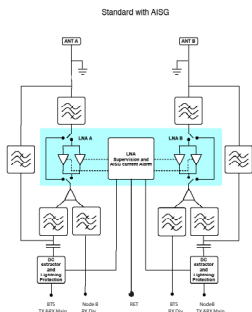
Minimizes

site acquisition issues

Specifications

Downlink (TX) Path		
Frequency Band	935 -960 MHz	
Insertion Loss	0.3 dB*	
Continuous Average Power	250 W (54 dBm)	
Return Loss	>20 dB*	
Intermodulation, 2x43 dBm TX Carrier BTS port	-116 dBm in RX band, ANT port	
System Isolation	>35 dB	
Uplink (RX) Path		
Frequency Band	890 - 915 MHz	
Gain	12 dB +- 0.8 dB	
Noise Figure	1.4 dB*	
Insertion Loss, Bypass mode	5.5 dB, including splitter loss	
Return Loss	>20* dB	
Output IP3	22 dBm*	
Power Supply and Alarm		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	EN 60950	
MTBF	750,000 hours min	
Mechanical		
Dimensions (WxHxD)	231x246x88 mm 9.09x9.68x3.46 in	
Connectors	6x 7/16 female (MI-51601) 6x 4.3-10 female (MI-51631) 1x AISG 8-pin female	
Mounting	Hose clamps, arbitrary orientation	
Volume	5.0 l	
Weight	6.0 kg 13.2 lb	
Colour	NCS 1502-R	
* Typical		
** Both main ports need Supply Voltage in CWA mode		

Block Diagram



Mechanical Drawing

