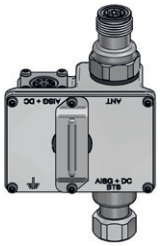
MI-31804
Smart Bias Tee/ANT



- RF signal, DC and modulated AISG signal from the BTS is fed to BTS port. AISG is demodulated and routed to the AISG (female) port on the Smart Bias-T form the BTS port
- Antenna port, 4.3-10 Female, DC shorted and only having RF
- BTS port, 4.3-10 Male, DC by-pass

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

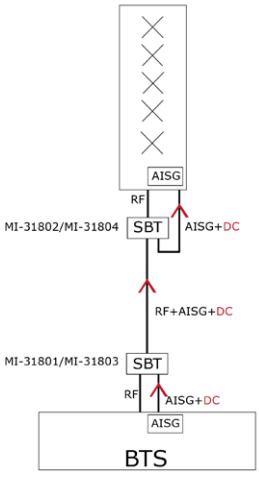
Reduces the cost
of network expansion

Minimizes
site acquisition issues

Specifications

Electrical	
Frequency range	555 - 3800 MHz
IL	0.1 dB typ
Min RL	20 dB
Max RF power	750 W
Peak RF power	5000 W
Max DC current	2.7 A
Max voltage drop	1 V
Max intermodulation	-117 dBm @2x43 dBm
Min isolation RF - DC	65 dB
Modem frequency	2.176 MHz
Environmental	
Temperature	-40 °C to +65 °C | -40 °F to +149°F
Ingress protection	IP 67
Operation	ETS 300 019-1-4 Class 4.1E
Lightning protection	5 kA 8/20 µs
	3 kA 10/350 µs
Miscellaneous	
EMC	EN 301 489-50
Safety Standards	EN 60950
Mechanical	
Weight	0.4 kg | 0.88 lb
Size (WxHxD)	61x83x48 mm | 2.40x3.27x1.89 in
Connectors	
BTS-Side - 4.3-10 M (DC+AISG)	
ANT-Side - 4.3-10 F	
AISG 8-pin circular F (IEC 60130-9)	
Pin	Function
3	RS485-B
5	RS485-A
6	9-30 VDC
7	DC return (ground)
1, 2, 4, 8	Not connected

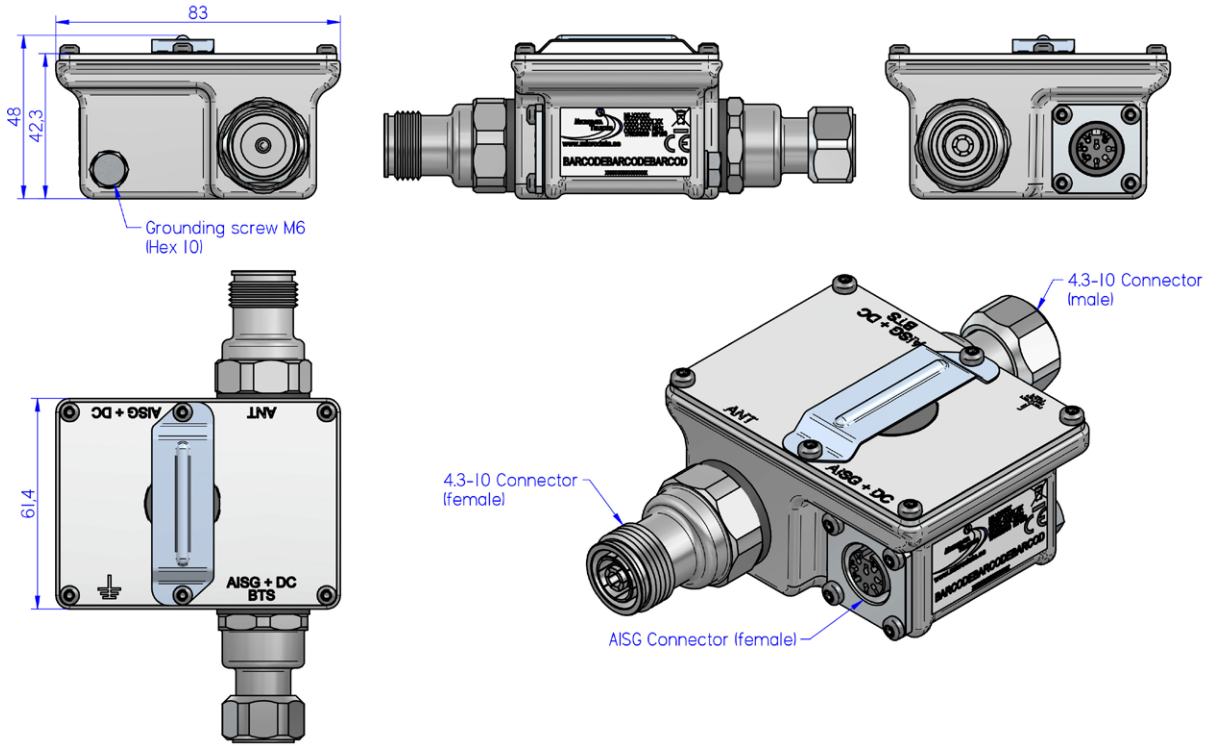
Block Diagram



Microdata Telecom Group, P.O. Box 2871, SE-187 28 Täby, SWEDEN
Phone: +46 8 477 77 70, Fax: +46 8 477 77 80
www.microdatatelecom.com, sales@microdata.se

MI-31804
Smart Bias Tee/ANT

Mechanical Drawing



Microdata Telecom Group, P.O. Box 2871, SE-187 28 Täby, SWEDEN
Phone: +46 8 477 77 70, Fax: +46 8 477 77 80
www.microdatatelecom.com, sales@microdata.se