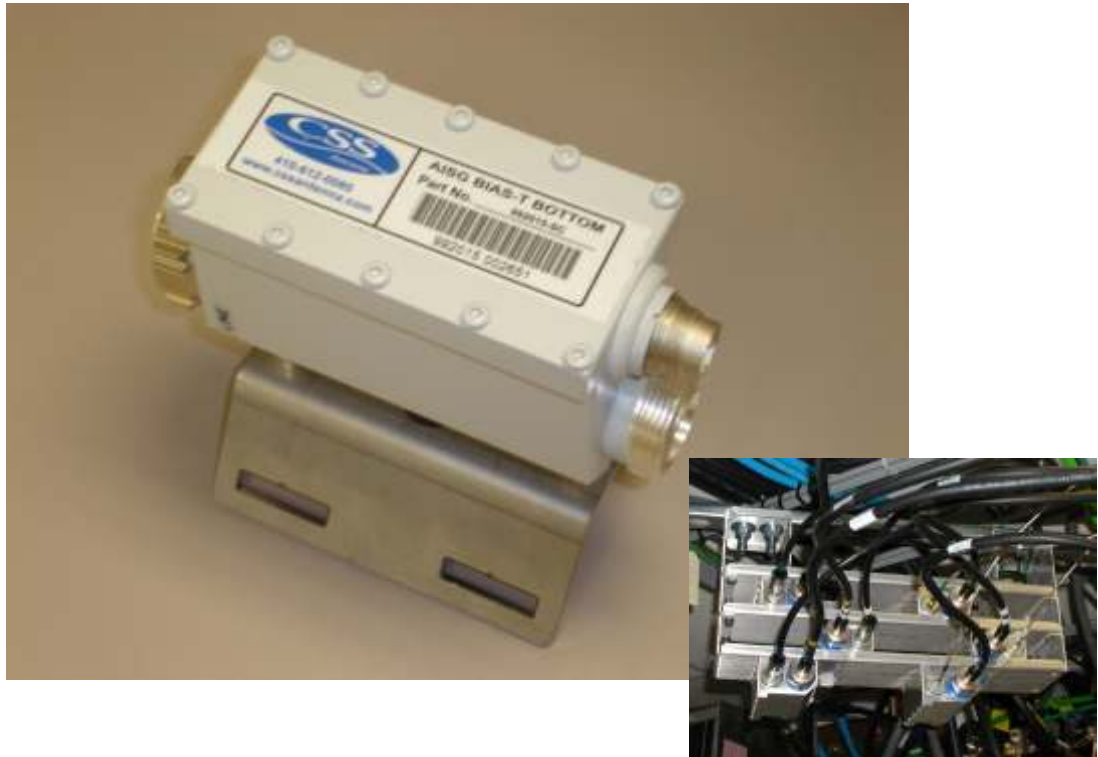




BIAS-T

Directing our energies for you.

800-2170 MHz



AISG Data Smart Bias-T with Modem, RS-485
DC-PASS option allows RET/TMA to share cabling
750 Watts
Maximum 0.15 dB Insertion Loss
IP68 Enclosure for Superior Outdoor Protection



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BIAS-T 800-2170 MHz

Electrical Specification

Frequency Range	800 - 2170 MHz
Return Loss	≤ -22 dB
RF Insertion Loss	0.1 dB (0.15 dB maximum)
Rated RF Power	750 W
Intermodulation Specification	< -120 dBm at 2x10W
DC Resistance at +20 deg. C	< 0.1 Ohms
Modem Operating Frequency	2.176 MHz +/- 100 ppm
DC Voltage	10.0 V to 15.0 V
DC Current Over Bias-T	3500 mA (5000 mA maximum)
Trip point of fuse at 50 deg C	5 A
Control Interface	AISG 1 Issue 1
Data Rate	9.6 kb/s...38.4 kb/s
Current Consumption of modem	
at Idle State	< 90 mA
at Active State	< 120 mA
AISG Connector (RS-485 Interface +DC)	8 Pin Socket (female)
Center Pin of the DC blocked connector port is not DC grounded	

Mechanical Specification

DC Coupling Connectors	7/16 DIN (female, Silver Finish)
Dimensions	2.6 x 5.16 x 1.96 inches (Incl. connectors)
Weight	1.5 lbs
Environment	Outdoor or Indoor Use
Operating Temperature	-40 to +60 deg C
Relative Humidity, %	5 to full immersion
Enclosure Protection	IP68
AISG Connector Protection	IP67
EMC Protection	IEC 61000-6-4, IEC 61000-6-2
MTBF	>1,000,000 hrs



Weatherproofing must be applied to the 7/16 DIN and AISG connector on all outdoor Bias-Ts, antennas and RETs. The application of adhesive heatskrink is recommended from the base of the device extending the entire length of the AISG cable connector and onto the AISG cable jacket. Care must be taken not to damage the AISG insulation when applying heat to the connection. All 7/16 DIN connectors must be torqued to 18-22 LB-FT, and all AISG connectors must be torqued to .74 LB-FT.

Ordering Information

<u>Model</u>	<u>Description</u>
BIAS-T-AISG-FF-I	Bias-T, with male AISG connector & two female 7/16 DINs
BIAS-T-AISG-FF-O	Bias-T, with female AISG connector & two female 7/16 DINs
BIAS-T-12V-BOT	Bias-T, 12V for bottom side, with female SMA connector & two female 7/16 DINs
BIAS-T-AISG-PASS	Bias-T, with female AISG connector for antenna side, DC pass & two female 7/16 DINs
BIAS-T-6SHF	Bias-T base shelf only, fits 6 BIAS-Ts
BIAS-T-12SHF	Bias-T base shelf only, fits 12 BIAS-Ts
BIAS-T-ADDSHF	Bias-T add shelf only, fits 6 BIAS-Ts
LR6-BT-33	Bias-T ladder rack shelf with 3 12V-BOT Bias-Ts and 3 AISG Bias-Ts mounted
LR-BT-36	Bias-T ladder rack shelf with 6 12V BOT Bias-Ts and 3 AISG Bias-Ts mounted

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