

# 1250 Watt Peak Power DBS-Band Antenna Mount Amplifier



## XTD-1250DBSHE

**Increases the power and capacity** of existing links

**550 W linear power** with included linearizer

**Same package size as 750 W units** for easy upgrades

**Flexible redundancy control** with built-in switch controller

**Ethernet interface** with SNMP and web page

### Key Specifications

<b>Frequency Range</b>	17.3-18.1 GHz (17.3-18.4 GHz optional)
<b>Peak Power at TWT</b>	1250 W (61.0 dBm)
<b>Intermodulation Distortion</b>	-25 dBc at 550 W (57.4 dBm)
<b>Noise Power Ratio</b>	-19 dB at 440 W (56.4 dBm)
<b>Dimensions (L x H x W)</b>	21.5 x 12.13 x 12.75 inches (54.61 x 30.8 x 32.4 cm)
<b>Weight</b>	90 lbs (40.82 kg)
<b>Prime Power</b>	180-240 VAC at 3150 VA
<b>Operating Temperature</b>	-40° to +50°C (2°C/1000 ft. derating)

### Options:

Extended Frequency Range 17.3-18.4 GHz

Single or dual-band internal L-band BUC

Liquid cooling to eliminate acoustic noise

Phase-combined and redundancy systems

State-of-the-art touchscreen remote controller and expansion switch controller

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- BLOCK DIAGRAM
- REDUNDANCY OPTIONS



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Additional Performance Specifications			XTD-1250DBSHE
Flange Power	Peak Power 1100 W (60.41 dBm)	Min CW Power 560 W (57.5 dBm)	Linear Power min 550 W (57.4 dBm)
Gain	Large Signal 70 dB min		Small Signal 70 dB min
Gain Small Signal Variation	Any 80 MHz 1.0 dB max		Any 500 MHz 2.5 dB max
Gain Slope	±0.04 dB/MHz max		
Gain Stability	24 hr Constant Temp ±0.25 dB max		Constant Drive ±1.0 dB max
Attenuation Range	25 dB min		
AM/PM Conversion	2.0°/dB at 560 W (57.5 dBm)		
Harmonic Output	-60 dBc max		
Tx Band Noise Power Output	-70 dBW/4 KHz max		
Rx Band Noise Power Output	10.95 to 12.75 GHz -150 dBW/4 KHz		
Group Delay Any 80 MHz	Linear max 0.01 nS/MHz	Parabolic max 0.001 nS/MHz <sup>2</sup>	Ripple max 0.5 nS/pk-pk
Residual AM Noise	to 10 KHz -50 dBc	10 to 500 KHz -20 (1.5*Logf) dBc	above 500 KHz -85 dBc
Phase Noise Continuous	13 dB below IESS Profile		
Phase Noise Spurious	AC Fundamental -50 dBc		Sum of All Spurs (less AC) -47 dBc
VSWR	Input 1.3:1 max		Output 1.3:1 max
Environmental	Humidity 100% Condensing	Altitude 10,000 ft MSL	Storage -50°C to +70°C
Shock and Vibration	Normal Transportation		



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