

Denali-X Line

X Band GaAs SSPA BUC

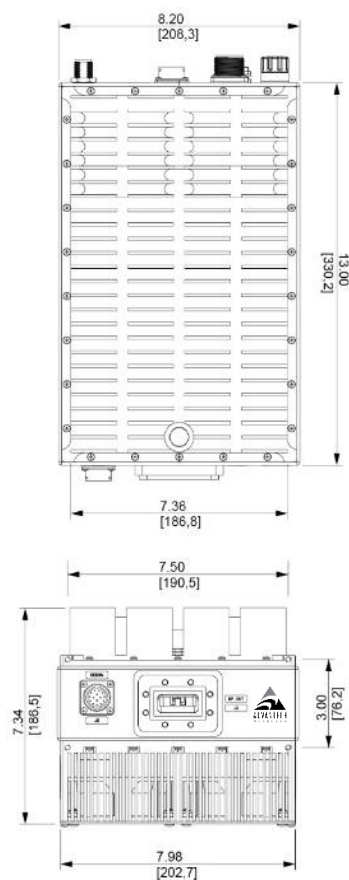
Overview

An ideal solution for both mobile and fixed Communication terminals. The Denali-X Line SSPAs / BUCs are designed for high efficiency resulting in an optimal compact form factor with high performance and reliability. With the advanced customer interface and HTTP embedded web page, the operator is able to monitor and control the BUC and the System Redundancy.

- X-Band GaAs: 80W / 100W / 125W

Features

- Compact size
- Available in AC
- Up to 125W of RF Output power
- Up to 60W of Linear power
- Built-in monitoring of critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- IP55 rated housing and fan (weather proof construction)
- M&C Interfaces included: RS485, RS232, Ethernet and dry-contacts
- WEB interface and SNMP monitoring
- Redundant Ready
- 1:1 and 1:2 built into the BUC eliminating external controller
- Other frequency ranges available
- Internal 10MHz reference
- Optional output sample port
- Optional Remote control unit





Denali-X Line GaAs SSPA BUC

Technical Specifications				
X-Band				
Electrical Characteristics	80W	100W	125W	
RF Output at P1dB	49 dBm	50 dBm	51 dBm	
RF Output at P Lin	46 dBm	47 dBm	48 dBm	
Output Frequency Range	7.9 – 8.4 GHz			
Input Frequency Range	950 – 1450 MHz			
Local Oscillator Frequency	6.95 GHz			
Gain Stability Over Temperature	± 1.5 dB nominal			
Gain Variation at fixed temperature	± 0.5 dB over max over 40 MHz; ± 2.0 dB over full band			
Linear Gain	70 dB min.			
User Adjustable Gain	20 dB in 0.5 dB steps			
Spectral Re-growth				
	-30dBc @PLinear			
Third order IMD (2 equal tones 5MHz apart)	-25 dBc, with 2 equal carriers (5MHz spacing) at 3dB total power back off from rated power (P Sat -3dB)			
10MHz Reference	0dBm ± 5.0 dB - External via IF / (Internal 10MHz reference optional)			
	@ 100 Hz	@ 1 KHz	@ 10 KHz	@ 100 KHz
Ref Phase Noise Requirement				@ 1 MHz
Local Oscillator Phase Noise	-63 dBc/Hz max	-73 dBc/Hz max	-83 dBc/Hz max	-93 dBc/Hz max
Output Spurious	-60dBc max @PLinear			
Harmonics	-60dBc max @PLinear			
AM/PM	< 2deg/dB at PLin			
VSWR	Input (1:50:1) Output (1:30:1)			
Power consumption				
X-Band	80W	100W	125W	
Power consumption (Watts)	525W	550W	600W	
Power requirement	220 VAC			
Interface				
Output Interface	Waveguide, CPR 112G (Grooved)			
Input Interface	N-Type Female, 50 Ohms, F-Type Female, 75 Ohms (optional)			
Connectors	AC Connector: MS3102R16-10P	M&C: MS3112E14-19P	Redundancy: MS3112E14-15P (Optional)	
Mechanical				
Cooling	Forced Air			
Dimensions (L x W x H)	13 x 8.2 x 6.3 / 33.02 x 20.83 x 16			
Weight	27.8 / 12.5			
Environmental				
	Temperature Range (ambient)	Humidity	Altitude	
	-40°C to + 55°C (operating) -40°C to + 75°C (storage)	0 to 100% (condensing)	10,000 ft ASL	

Ref.: PB-AWT-DML-GaAs-X-20010

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