

Denali-Line

C-Band GaN SSPA BUC

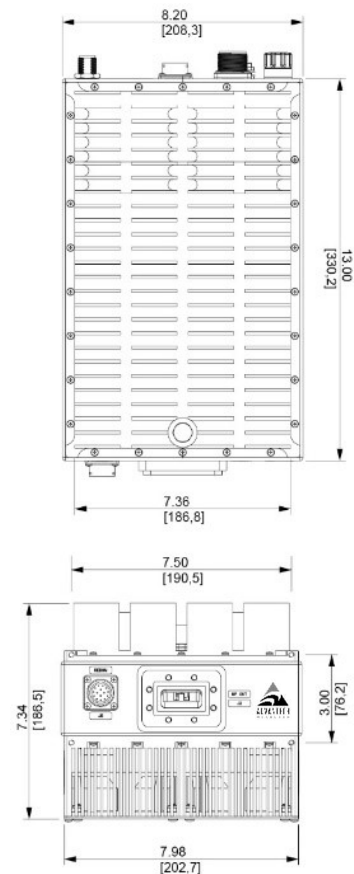
Overview

An ideal solution for both mobile and fixed Communication terminals. The Denali-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.

- C-Band: 150W / 200W / 250W

Features

- Compact size
- Available in DC
- 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
- 1:1 and 1:2 Redundant Ready built into the BUC eliminating external controller
- Optional Internal/External reference with auto-sensing
- Optional Remote control unit





Denali-Line GaN SSPA BUC

Technical Specifications				
C-Band				
Electrical Characteristics	150W	200W	250W	
RF Output at P Sat (typical)	52 dBm	53 dBm	54 dBm	
RF Output at P Lin	49 dBm	50 dBm	50.5 dBm	
Output Frequency Range	Lower C: 5.725 – 6.425 GHz	Standard C: 5.85 – 6.425 GHz	Extended C: 5.85 – 6.725 GHz	Insat C: 6.725 – 7.025 GHz
Input Frequency Range (BUC)	Lower C: 975 – 1675 MHz	Standard C: 950 – 1525 MHz	Extended C: 950 – 1825 MHz	Insat C: 1275 – 1575 MHz
Input Frequency Range (SSPA)	Lower C: 5.725 – 6.425 GHz	Standard C: 5.85 – 6.425 GHz	Extended C: 5.85 – 6.725 GHz	Insat C: 6.725 – 7.025 GHz
Local Oscillator Frequency	Lower C: 4.75 GHz	Standard C: 4.9 GHz	Extended C: 4.9 GHz	Insat C: 5.45 GHz
Gain Stability Over Temperature	± 1.5 dB nominal			
Gain Variation at fixed temperature	± 0.5 dB max over any 36 MHz; ± 2.0 dB over full band			
Linear Gain	70 dB min.			
User Adjustable Gain	20 dB in 0.5 dB steps			

Technical Specifications					
Spectral Re-growth	-30dBc @PLinear				
Third order IMD (2 equal tones 5MHz apart)	-25 dBc, at Plinear				
10MHz Reference	0dBm ± 5.0 dB - External via IF / (Internal 10MHz reference optional)				
	@ 100 Hz	@ 1 KHz	@ 10 KHz	@ 100 KHz	@ 1 MHz
Ref Phase Noise Requirement		-140 dBc/Hz max	-150 dBc/Hz max	-155 dBc/Hz max	
Local Oscillator Phase Noise	-63 dBc/Hz max	-73 dBc/Hz max	-83 dBc/Hz max	-93 dBc/Hz max	-103 dBc/Hz max
Output Spurious	-55dBc max @PLinear				
Harmonics	-50dBc max @PLinear				
VSWR	Input (1:50:1) Output (1:30:1)				

Power consumption				
C-Band	150W	200W	250W	
Power consumption (Watts)	880W	900W	1000W	
Power requirement	110-220 VAC			

Interface				
Output Interface	C-Band: Waveguide, CPR 137G (Grooved)			
Input Interface	N-Type Female, 50 Ohms			
Connectors	AC Connector: MS3102R16-10P	M&C: MS3112E14-19P	Redundancy: MS3112E14-15P	

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)	0 to 100% (condensing)	10,000 ft ASL
	-40°C to + 75°C (storage)		

*P_{LINEAR} is the power at which the IMD=-25 dBc for two CW signals 5 MHz apart and the Spectral regrowth is <-30 dBc @ 1.0 x symbol rate, tested with a single QPSK, 2MS/s SR, 0.35 roll-off.

Ref.: PB-AWT-DLg-C-23011

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