

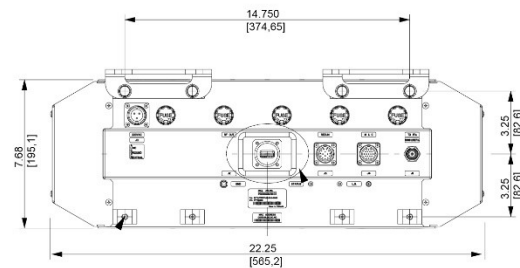
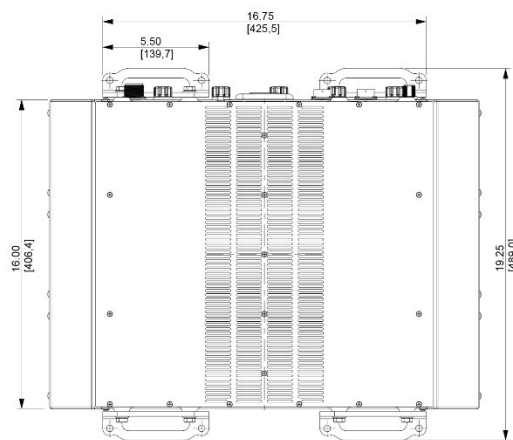
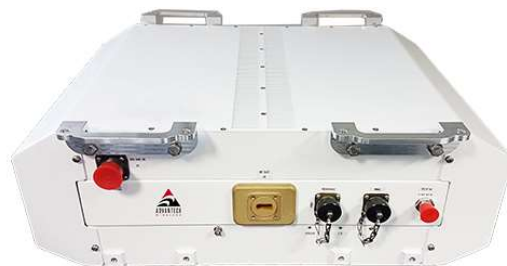
Taurus-Line

Ku-Band GaN SSPA/ BUC

**Smallest form factor in the industry.
Ideal for mobile and SNG applications.**

Overview

An ideal solution for both mobile and fixed Communication terminals. It is 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.



Features

- Highest power density in the industry
- 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
- Ku-Band: Optional Dual LO (Switchable). covers both regular and ext. Ku-Band
- Other frequency ranges available
- Optional 10MHz reference
- Optional output sample port
- Optional Remote control unit



Taurus-Line GaN SSPA/ BUC

Technical Specifications					
Electrical Characteristics	Ku-Band				
	300W	400W	500W		
RF Output at P Sat (typical)	55 dBm	56 dBm	57 dBm		
RF Output at P Lin*	52 dBm	53 dBm	53.5 dBm		
Output Frequency Range	Lower Ku: 12.75 – 13.25 GHz**	Standard Ku: 14.00 – 14.50 GHz	Extended Ku: 13.75 – 14.50 GHz		
Input Frequency Range	Lower Ku: 950 – 1450 MHz	Standard Ku: 950 – 1450 MHz	Extended Ku: 950 – 1700 MHz		
Local Oscillator Frequency	Lower Ku: 11.80 GHz	Standard Ku: 13.05 GHz	Extended Ku: 12.80 GHz		
Gain Stability Over Temp.	Low Ku Band: ± 1.5 dB max. Standard Band: ± 1.5 dB max. Extended Band: ± 1.5 dB max.				
Gain Variation at fixed temp	Low Ku Band: ± 0.5 dB over max over 40 MHz; 3dB p-p over full band Standard Band: ± 0.5 dB over max over 40 MHz; 3dB p-p over full band Extended Band: ± 0.55 dB over max over 40 MHz; 3dB p-p over full band				
Linear Gain	75 dB min.				
User Adjustable Gain	20 dB nominal in 0.5 dB steps				
Spectral Re-growth	-30dBc @PLinear				
Third order IMD (2 equal tones 5MHz apart)	-25 dBc at Plin				
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					
Ku-Band	300W	400W	500 W		
Power consumption (at rated power) AC version	2400W	2500W	3200W		
Interface					
Output Interface	Ku-Band: Waveguide, WR75G (Grooved)				
Input Interface	N-Type Female, 50 Ohms				
Connectors	AC Connector: MS3102R16-10P	M&C: MS3112E14-19P	Redundancy: MS3112E14-15P		
Mechanical					
Dimensions (L x W x H)	16.0 x 22.3 x 7.7 in / 40.6 x 56.5 x 19.5 cm				
Weight	93 lbs / 42kg				
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)				

*PLINEAR 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.

** 500w KL-band is not available

Ref: PB-AWT-TLg-Ku-24038

NORTH AMERICA

USA
info.usa@advantechwireless.com

CANADA
Info.canada@advantechwireless.com

EUROPE

UNITED KINGDOM
info.uk@advantechwireless.com

SOUTH AMERICA

info.latam@advantechwireless.com

BRAZIL
info.brazil@advantechwireless.com

ASIA

info.asia@advantechwireless.com

INDIA
info.india@advantechwireless.com