

# Taurus-X Line

## X Band GaAs SSPA BUC

### Overview

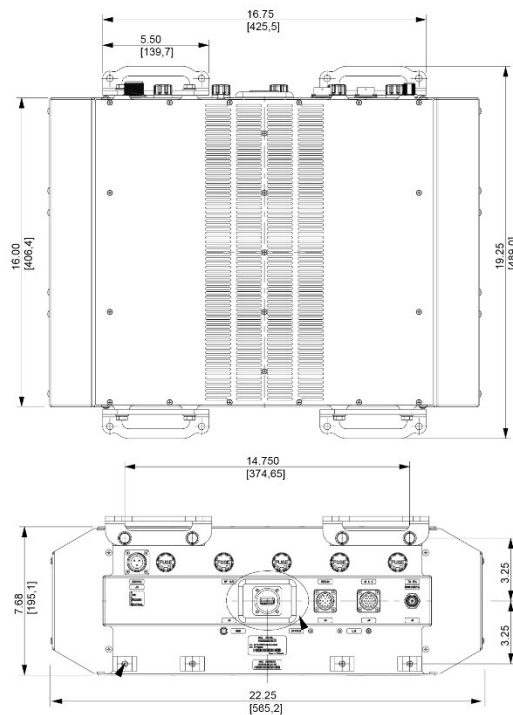
An ideal solution for both mobile and fixed Communication terminals. It is designed for high efficiency resulting in an optimal compact form factor with high performance and reliability. With the advanced customer interface and HTTP embedded web page, the operator is able to monitor and control the BUC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

- X-Band GaAs: 300W/ 400W / 500W



### 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
- 1:1 and 1:2 Redundant Ready built into the BUC eliminating external controller
- Other frequency ranges available
- Optional 10MHz reference
- Optional output sample port
- Optional Remote control unit





## Taurus-X Line GaAs SSPA BUC

Technical Specifications					
X-Band					
Electrical Characteristics	300W	400W	500W		
RF Output at Psat	55 dBm	56 dBm	57 dBm		
RF Output at P1dB	54 dBm	55 dBm	56 dBm		
RF Output at P Lin	51 dBm	52 dBm	53 dBm		
Output Frequency Range	7.9 – 8.4 GHz				
Input Frequency Range	950 – 1450 MHz				
Local Oscillator Frequency	6.95 GHz				
Linear Gain	70 dB min.				
Gain Flatness	4dB p-p max.				
Gain Slope	1dB p-p max. over 40MHz				
Gain Stability Over Temperature	± 1.5 dB max.				
User Adjustable Gain	20 dB in 0.5 dB steps				
Spectral Re-growth	-30dBc @PLinear				
Third order IMD (2 equal tones 5MHz apart)	- 25dBc at Plin (MIL-STD-188-164B)				
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	-60dBc max @PLinear				
Harmonics	-60dBc max @PLinear				
Noise Power Density	-70dBm/Hz in Tx band (-150dBm/Hz in Rx band (7.25 – 7.75GHz))				
AM/PM	< 2deg/dB at PLin				
VSWR	Input (1:50:1) Output (1:30:1)				
Power consumption					
X-Band	300W	400W	500W		
Power consumption (at rated power) AC version	2500W	2900W	3200W		
Power requirement	220 VAC				
Interface					
Output Interface	Waveguide, CPR 112G (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 / 40.6 x 56.5 x 19.5				
Weight	93lb / 42kg				
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-TML-GaAs-X-22317

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