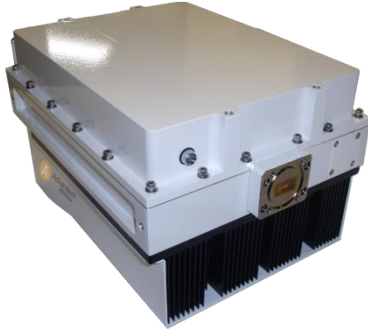




200W
SSPBM-X 2200-G series



Features

- Output power of 200W in a single compact package
- High linearity
- Full M&C capability via RS485 or Ethernet port
- Weatherproof construction
- CE marking

Overview

Based on GaN technology the new G-Series X-Band BUCs provide high power density in a compact size. Combined with the traditional Advantech features, these new series of BUCs provide the ultimate in performance and convenience. The products in the new G-Series X-Band BUCs are available as SSPA or SSPB (BUC). The first products available in the new G-Series are 200W.

Options

- Ethernet port
- Waveguide Output Isolator
- 70 dB Receive Reject Filter (external)
- Harmonic filter (external)

Accessories

- Mounting kits
- External Receive Reject Filter
- External Transmit Reject Filter (for RX path)
- Remote M&C panel with optional SNMP
- Flexible and rigid waveguides
- Mounting frames
- High power terminations
- Replacement fans

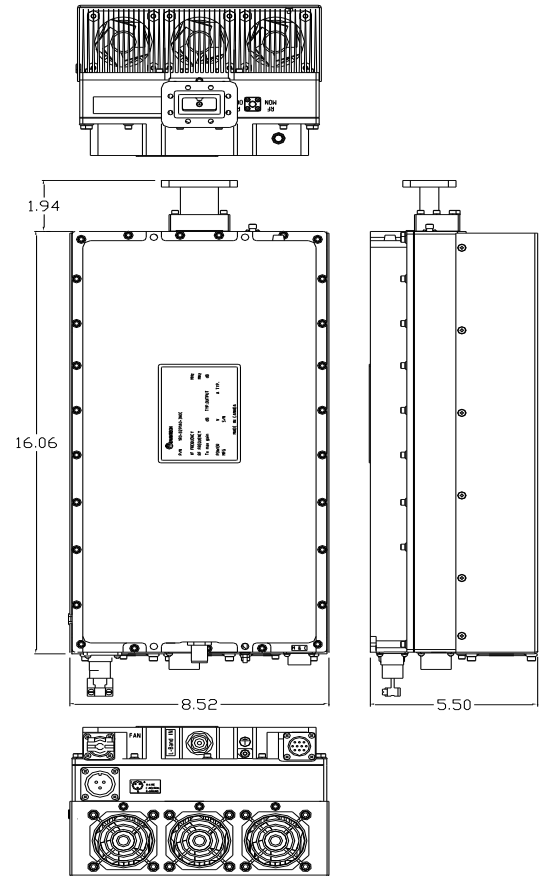


Figure 1: 200 W

X-Band SSPB GaN

General Specifications		200W	
Operating Frequency	7.9 – 8.4 GHz		
L-Band input (BUC)	950 – 1450 MHz		
Output Power	200W	$P_{SAT} +53 \text{ dBm}$ min $P_{LINEAR 1} +49.5 \text{ dBm}$ $P_{LINEAR 2} + 50.5 \text{ dBm}$ $P_{LINEAR 1}$ is the power at which the IMD specs are met $P_{LINEAR 2}$ is the power at which the spectral regrowth is <-30 dBc @ 1.0 x symbol rate for QPSK/OQPSK/8PSK modulation	
Gain	74dB \pm 3 dB		
Gain adjustment range	20 dB in 0.1 dB steps		
Gain flatness over full band	3 dB p-p max		
Gain slope over 40 MHz	1dB p-p dB max		
Gain variation over temperature	\pm 1.5 dB max		
Input Impedance and VSWR	50 Ω 1.3:1		
Output VSWR	1.25:1 with optional Output Isolator		
Noise power density	-75 dBm/Hz in Transmit Band, -110 dBm/Hz in Receive Band (7.25 – 7.75 GHz) -145 dBm/Hz with optional external Receive Reject Filter		
Spurious	-55 dBc max at $P_{LINEAR 1}$		
Harmonics	-40 dBc @ $P_{LINEAR 2}$		
AM/PM conversion	2.5 $^\circ$ /dB at $P_{LINEAR 2}$		
Third order intermod (two tones)	-25 dBc two signal 5 MHz apart at $P_{LINEAR 1}$		
Spectral regrowth	30 dBc @ $P_{LINEAR 2}$		
Group delay	Ripple 1 nsec p-p max		
Local Oscillator freq.	6.95 GHz		
Phase Noise	-53 dBc/Hz at 10Hz -83 dBc/Hz at 10 kHz -63 dBc/Hz at 100Hz -95 dBc/Hz at 100 kHz -73 dBc/Hz at 1000Hz		
External Reference Frequency phase noise (max)	10 MHz -120 dBc/Hz at 10Hz -155 dBc/Hz at 10 kHz -135 dBc/Hz at 100Hz -160 dBc/Hz at 100 kHz -150 dBc/Hz at 1000Hz		
Weight & Dimensions			
Dimensions	16" x 8.5" x 5.5 (L x W x H) (406x200x140 mm)		
Weight	30 lbs (13.6 kg)		
Input voltage	DC 48V (40v – 60V) AC 90 – 265 VAC (47 – 63 Hz)		
Power consumption (nominal)	1100W @ P_{sat} , 900W @ $P_{LINEAR 1}$		
Interfaces	Input (L-Band) N type female DC line MS3102 type RS485/Ethernet MS3112 type	RF output AC line MS3102 type	CPR112
Environmental	Temperature Operating -30 $^\circ$ C to +55 $^\circ$ C Option 1 -40 $^\circ$ C to +55 $^\circ$ C Storage -55 $^\circ$ C to +85 $^\circ$ C Humidity 100% condensing Altitude 10,000' AMSL, derated by 2 $^\circ$ C/1000' from AMSL		

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