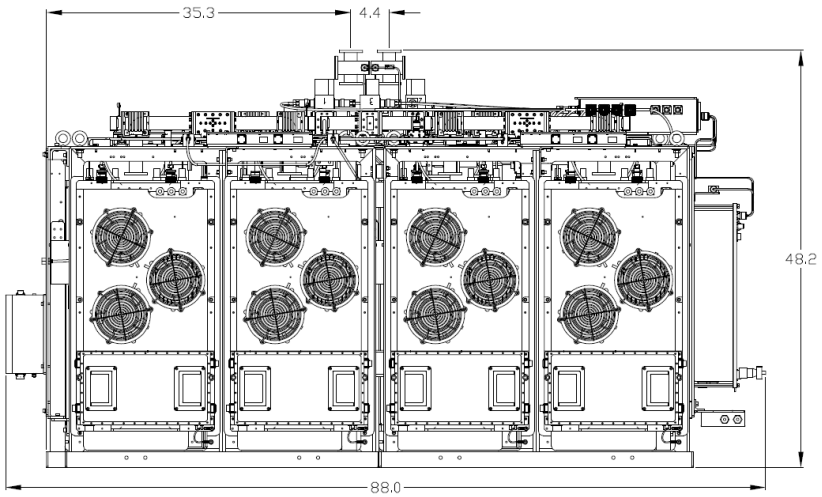
3,000W C-Band Hubmount UltraLinear™ Summit™ Modular SSPA/ SSPB

SSPA	AWMA-C	Summit™ Series
SSPB (BUC)	SSPBM-C	Summit™ Series



- Transmits either 1,700W on each polarization (two separate inputs/outputs) or 3kW on any polarization as phase combined (one input/ one output)
- High power density in a compact, weatherproof package
- UltraLinear™, designed for Multi Carrier Operations and high order modulation
- High Reliability, High Linearity, Built-in Redundancy

- Save 8 to 10 dB power compared to Indoor Klystrons
- Substantial Savings in Energy Cost, Satellite Bandwidth, CAPEX
- Can cover multiple transponders, fully DVB-S2X enabled
- Ruggedized, Weatherproof Outdoor Package,
- MIL-STD-188-164A Compliant
- Built in Redundancy, Field replaceable RF or Power Supplies Modules

- The Highest Linear Power Available in a single outdoor package.
- Backed by over 25 years of Outdoor SSPA design and manufacturing.

3,000W C-Band Hubmount
Summit™ / UltraLinear™ SSPA/ SSPB

Specifications		
Operating Frequency	5.85 – 6.725 GHz	
L-Band input (BUC)	950 – 1825 MHz	
Output Power	1700W	3000W
PSAT	62.0 dBm on each polarization	64.5 dBm on any single polarization
P1dB	61.0 dBm	63.5 dBm
Gain SSPA SSPB (BUC)	68 ± 3 dB 78 ± 3 dB	
Gain adjustment range	20 dB in 0.1 dB steps	
Gain flatness over full band	SSPA 2dB p-p max SSPB (BUC) 4 dB p-p max	
Gain slope over 40 MHz	± 0.3 dB max SSPB (BUC) ± 0.5 dB max	
Gain variation over temperature	± 1.5 dB max	
Input Impedance and VSWR	50 Ω SSPA 1.3:1 SSPB (BUC) 1.4:1	
Output VSWR	1.3:1	
Noise power density	-75 dBm/Hz in Transmit Band, -145 dBm/Hz in Receive Band	
Spurious at P_{LINEAR}	SSPA: -65 dBc max SSPB (BUC): -55 dBc max	
Harmonics	-50 dBc @ P_{1dB}	
AM/PM conversion	<1.0°/dB P_{1dB}	
Third order intermod (two tones)	-25 dBc two signals 5 MHz apart at 3dB Back-off from P1dB	
Group delay	Ripple 1 nsec p-p max over any 40 MHz band	
SSPB (BUC)		
Local Oscillator freq.	4.9 GHz	
Internal Reference frequency (optional)	10 MHz Aging/day $\pm 2 \times 10^{-10}$ Aging/year $\pm 5 \times 10^{-8}$ Stability $\pm 2 \times 10^{-8}$ over temp range	
Phase Noise	-53 dBc/Hz at 10Hz -63 dBc/Hz at 100Hz -73 dBc/Hz at 1000Hz	-83 dBc/Hz at 10 kHz -93 dBc/Hz at 100 kHz
External Reference Frequency phase noise (max)	10 MHz -120 dBc/Hz at 10Hz -135 dBc/Hz at 100Hz -150 dBc/Hz at 1000Hz	 -155 dBc/Hz at 10 kHz -160 dBc/Hz at 100 kHz
Weight & Dimensions		
Dimensions	L x W x H 88" x 47.2" x 48.20" (2235 x 1199 x 1224 mm)	
Weight	1320 lbs (600 kg)	
AC input voltage	190 – 265 VAC (47-63 Hz)	
Power consumption	20,000W at P_{LINEAR} 25,000W at P_{SAT}	
Interfaces	Input (RF or L-Band) - N type female AC line - MS3102 type Output Sample Port - N type female RF output - CPR137G RS485/Ethernet MS3112 type	
Environmental	Temperature Operating -30°C to +55 °C Option 1 -40°C to +55 °C Option 2 -50°C to +50 °C Storage -55°C to +85 °C Humidity 100% condensing Altitude 10,000' AMSL, derated by 2 °C/1000> from AMSL	

Ref.: PB-SSPBm-C-3000-001-18338

NORTH AMERICA

USA
info.usa@advantechwireless.com

CANADA
Info.canada@advantechwireless.com

EUROPE

UNITED KNGDOM
info.uk@advantechwireless.com

RUSSIA & CIS
info.russia@advantechwireless.com

SOUTH AMERICA
info.latam@advantechwireless.com

BRAZIL
info.brazil@advantechwireless.com

ASIA
info.asia@advantechwireless.com

INDIA
info.india@advantechwireless.com

PlanetComm
Planet Communications Asia PLC.
157 Soi Ramindra 34, Ramindra Rd., Tarang, Bangkhen, Bangkok 10230
Tel: +66 2 792 2400 I Fax: +66 2 792 2499, +66 2 943 5771 I E-mail: sales@planetcomm.com

PlanetComm: