



## **Antenna Mount SSPA**



## Super Compact 150W / 200W Ku-Band BUC GaN

The STS150/200Ku Band series is powered by GaN technology and is one of the smallest, lightweight efficient units available today.

With best in class RF characteristics, RF sample port, true RMS power measurements, extensive monitor and control capabilities enabled via Ethernet, Serial and/or Analogue interfaces.

Designed for portable, mobile and VSAT on the move applications. Its small size and weight allows and high thermal efficiency, which makes it a most economical solution for fixed VSAT applications.

## **OPTIONS**

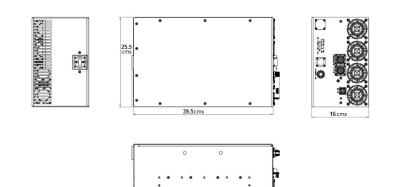
- Internal 10MHz Reference
- Available in both standard and extended Ku-Band
- Automated Level Control (ALC) option
- Antenna Mounting Kit
- Switchable LO option Standard and Extended Ku-Band in one unit

## **FEATURES**

- Extremely high power density Up to 200W Psat in 12.5Kg 39.5 x 25.5 x 16 cms.
- Superior RF performance:
  - Phase noise 8-10dB better than IESS308/309
  - Psat up to 54dBm
  - Spurious below –60dBc
  - Wide dynamic range of Gain control

- RF overdrive protection
- Input and Output True RMS power detection
- Configuration via RS-232 serial console, packet protocol RS-485 -User friendly HTTP based GUI and SNMP optional
- Redundant ready with no external controller required
- Field upgradeable software
- Status LED





Parameter		150W	200W	
<b>RF</b> Performance				
RF Frequency Range-Available in/switched:		14-14.5GHz	13.75-14.5GHz	
IF Frequency Range		950-1450MHz	950-1450MHz 950-1700MHz	
LO Frequency		13.05GHz 12.8GHz		
Conversion		Single Conversion; non-inverting		
Saturated Power		52dBm typ 53dBm typ		
Linear Power		49 dBm min		
Conversion Gain		75dB min, 77dB typ		
Gain Flatness		+/-1dB typ +/-1.5dB max over full band; +/-0.5dB max over any 40MHz		
Gain Stability over temperature		+/-1.5dB over full temperature range		
Gain Stability over input power		3dB typ 4dB max from 10dB back off to rated power		
Gain Control		20dB min dynamic range		
External Reference Frequency		100Hz multiplexed with IF In		
External Reference Require	d Phase Noise		00 kHz	
Up-Converter Phase Noise		-68dBc/Hz @ 100Hz; -80dBc/Hz @ 1kHz; -90dBc/Hz @ 10kHz -95dBc/Hz @ 100kHz -115dBc/Hz @ 1MHz		
Linearity: 2 tone IMD Spect	ral Re-growth	-24dBc at P linear -30dBc for QPSK at 1.5xsymbol rate at Plinear+1dB		
Noise Power Density:	Transmit Band Receive Band	-85dBm/Hz max -148dBm/Hz max		
Output Spurious: Non-signal related Signal related		-60dBc -55dBc		
Power				
AC Voltage Range		90-265VAC 50-60Hz auto-ranging PFC		
Power Consumption at rated power		850W	1000W	
Power Consumption at 3 dB back off		650W	750W	
48VDC Isolated optional		40-72VDC Isolated		
Mechanical				
Size		39 x 22.5 x 11 cms (47 x 22.5 x 11 cms with output circulator)		
Weight		12Kgs		
Cooling		Forced Air		
Operating temperature		-40°C to +55°C		
Relative Humidity		Up to 100% condensing		
Interfaces				
IF Input Connector		N-type female		
RF Output Connector		CPR137 grooved		
RF Sample		N-type female		
AC Power In		MS3112E12-3P		
M&C Interface-Serial, Analog and Ethernet		MS3112E14-19S		
Redundant Interface		MS3112E14-133 MS3112E14-19P		
Part Numbering Information		150W	200W	
AC Power Supply		AC1	AC1	

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