

Spacepath STS40 / 50 / 60K Antenna Mount SSPA





Super Compact 40W/50W/60W Ku-Band BUC GaN

The STS40/50/60Ku Band series is powered by GaN technology and is one of the smallest, lightweight efficient units available today.

With best in class RF characteristics, embedded WG circulator, 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 direct feed horn mounting, which makes it a most economical solution for fixed VSAT applications.

OPTIONS

- Internal 10MHz Reference clock
- Switchable LO Standard and Extended in one unit
- True RMS detector Output power measurement
- Antenna mounting kit
- Built in auto-ranging AC power supply

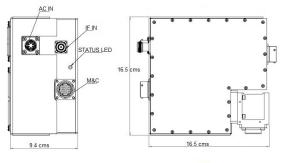
FEATURES

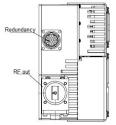
- Up to 60W Output Power in this super compact lightweight package 2.5Kg 16.5 x 16.5 x 9.4 cms.
- Only 290W Power consumption at 60W output
- 200W power consumption at 3dB back off
- Superior RF performance:
 - Phase noise 6dB better than IESS308/309
 - High Linearity
 - Spurious below –60dBc
 - Wide dynamic range of Gain control

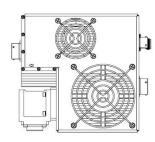
- RF overdrive protection
- Output power measurement
- Built-in WG Circulator provides full output VSWR protection
- Configuration via RS-232 serial console, packet protocol RS-485 -User friendly HTTP based GUI and SNMP optional
- 48VDC isolated power supply
- Redundant ready with no external controller
- Field upgradeable software
- Status LED

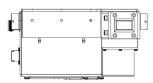












		10111			4000
Parameter		40W	50W		60W
RF Performance					
RF Frequency Range-Available in/switched:		14-14.5GHz 13.75-14.5GHz			
IF Frequency Range		950-1450MHz 950-1700MHz			
LO Frequency (Switchable)		13.05GHz 12.8GHz			
Conversion		Single Conversion; Non-Inverting			
Saturated Power		46dBm typ.	47dBm typ.		48dBm typ.
Linear Power		43dBm min.	44dBm min.		45dBm min.
Conversion Gain		72dB min, 75dB typ			
Gain Flatness		+/-1dB typ +/-1.5dB max over full band; +/-0.5dB max over any 40MHz			
Gain Stability		+/-1.5dB over full temperature range			
Gain Control		20dB min dynamic range			
External Reference Frequency		10MHz multiplexed with IF In			
External Reference Required Phase Noise		-130dBc/Hz @ 100Hz -140d	Bc/Hz @ 1kHz	-150dBc/Hz @ 1	10kHz -155dBc/Hz @ 100 kHz
Up-Converter Phase Nois	e		0Hz; -80dBc/Hz sc/Hz @ 100kHz	_	dBc/Hz @ 10kHz 1MHz
	ne IMD ral Re-growth	-25dBc at 3dB total power back off from rated power -30dBc at 6dB total power back off from rated power -30dBc for QPSK at 1.5xsymbol rate at 3dB back off from rated power			
Noise Power Density:	ise Power Density: Transmit Band -85dBm/Hz max Receive Band -140dBm/Hz max				
Output Spurious: Non-signal related Signal related		-60dBc -55dBc			
Power					
48VDC Voltage Range / 28VDC Voltage Range (optional)		36-72VDC Isolated / 24-75VDC Isolated (optional)			
AC Voltage Range (optional)		90-265VAC 50-60Hz Auto-Ranging			
	DC power In (@ Psat / @ Plin) AC power In (@ Psat / @ Plin)	225W typ. / 160W typ. 250W typ. / 180W typ.	280W typ. / 220W typ. 260W typ. / 200W typ.		290W typ. / 230W typ. 270W typ. / 210W typ.
Mechanical					
Size		16.5 x 16.5 x 9.4cms			
Weight		2.5KG			
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		WR75 grooved			
AC Power In		MS3112E10-8P			
RS485-RS232-Ethernet-SNMP		MS3112E14-19S			
Part Numbering Ir	nformation				
Power Supply Option		40W	50	w	60W
DC Isolated		DC1	DO	1	DC1
AC Auto-ranging		AC1	AC	1	AC1