



Super Compact 25W C-Band BUC

The STS25AVC series is one of the smallest, lightweight efficient units available today.

With best in class RF characteristics, embedded output isolator, 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.

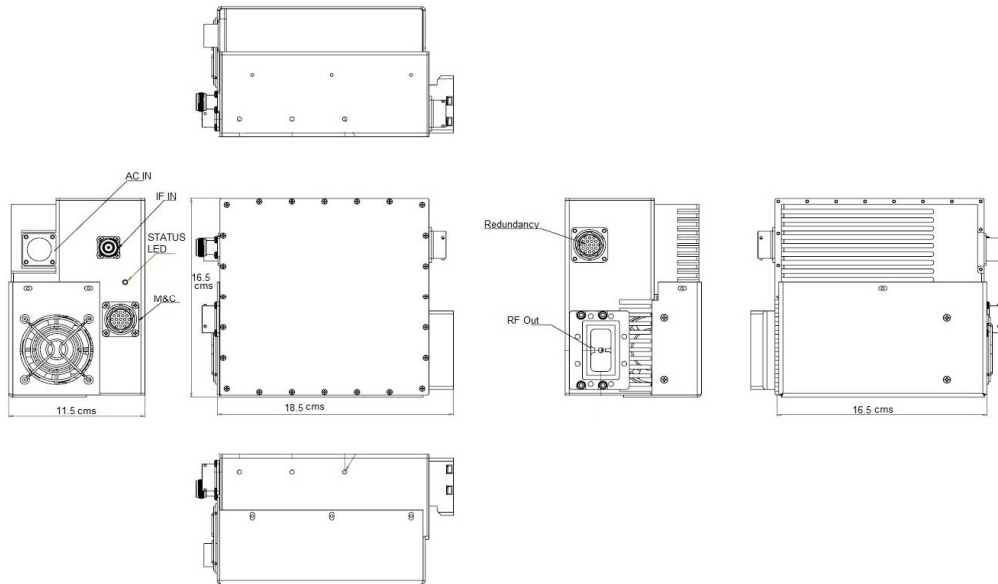
OPTIONS

- Internal 10MHz Reference clock
- Available in Super-Extended, Palapa and Insat C-Band frequencies
- Antenna mounting kit
- Built in auto-ranging AC power supply

FEATURES

- Up to 25W P1dB / 31W Psat in this super compact lightweight package 3Kg 16.5 x 16.5 x 11.5 cms.
- Ideal for feed horn mounting
- Low power consumption
- Superior RF performance:
 - Phase noise 10dB better than IESS308/309
 - P1dB of 44dBm min
 - Spurious below -60dBc
 - Wide dynamic range of Gain control

- Output power measurement - True RMS detector
- Integrated L-Band to C-Band up-converter
- Built-in Output Isolator 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
- DC Power via IFL



Parameter	25W
RF Performance	
RF Frequency Range-Available in/switched	5.85-6.425GHz (other frequency options available)
IF Frequency Range	950-1525MHz
LO Frequency	4.9 GHz (other options available)
Conversion	Single Conversion; non-inverting
Output Power at 1dB compression point	44dBm min
Saturated Power	45dBm typ
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 -140dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz -155dBc/Hz @ 100 kHz
Up-Converter Phase Noise	-70dBc/Hz @ 100Hz; -80dBc/Hz @ 1kHz; -90dBc/Hz @ 10kHz -95dBc/Hz @ 100kHz -115dBc/Hz @ 1MHz
Linearity: 2 tone IMD Spectral Re-growth	-26dBc at 3dB total power back off from P1dB -30dBc for QPSK at 1.5 x symbol rate at 2dB back off from P1dB
Output Spurious: Non-signal related	-60dBc
Signal related	-55dBc
Power	
48V DC Voltage Range	32-72VDC Isolated - DC fed via IFL
AC Voltage Range (Optional)	90-265VAC 50-60Hz auto-ranging
Power Consumption DC Power In/AC Power In	180/190W
Mechanical	
Size	16.5 x 16.5 x 11.5 cms
Weight	3Kgs
Cooling	Forced Air
Operating temperature	-40°C to +60°C
Relative Humidity	Up to 100% condensing
Interfaces	
IF Input Connector	N-type female/F-type female
RF Output Connector	CPR137 Grooved
AC Power In	MS3112E10-8P
RS485-RS232-Ethernet-SNMP	MS3112E14-19S
Part Numbering Information	
Power Supply Option	25W
DC Isolated	DC1
AC Auto-ranging	AC1