Amplus Communication

Amplus Communication has been serving the global VSAT industry, being continuously managed by the Most Experienced Personnel in Design, Engineering and Manufacturing of VSAT equipment in the Southeast Asia region.

80W, 100W GaAs

200W GaN

AM-9333 Series Ku-Band BUC

All-In-One Package for Crucial VSAT Networks

Key Features & Benefits

- Integrated BUC for Better Performance & Reliability
- High Frequency Stability
- Monitoring & Controlling through RS232/485, TCP/IP & FSK
- Tricolour LED Status Indicator to Identify BUC Status Instantly
- Field Removable Fans for Easy Maintenance
- Weather-Proof, IP65 Standard
- Built-in Receive Reject Filter (RRF)
- Built-in Waveguide Output Isolator
- Output Sample Monitoring Port

Optional Features & Accessories

- Built-In 10 MHz Reference with Automatic 10 MHz External Reference Input Detector
- Handheld Terminal for M&C
- TCP/IP M&C Interface
- FSK M&C Interface

Frequency Range

	RF (GHz)	IF (MHz)	LO (GHz)
Std Ku	14.0 - 14.5	950 - 1450	13.05
Ext Ku	13.75 - 14.5	950 - 1700	12.8

ISO 9001 ISO 14001 ISO 45001

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Technical Details

RF Specifications

Input / Output Frequency	As per the frequency table on front page
Output Power P-1dB W(dBm)	80 (49), 100 (50)
P_{SAT} W(dBm)	200 (53)
Gain	70 dB nominal
Gain Flatness	± 2 dB typical
Gain Stability over Temperature	± 2 dB
Gain Control Range	20 dB in 0.5 dB step nominal
Intermodulation Product	-25 dBc max (3dB total back-off from rated power)
Spectral Regrowth	-30 dBc max (2 dB below the rated power @ 1x symbol rate offset from QPSK or OQPSK)
Spurious	-55 dBc max
Frequency stability over Temperature:	
Internal Reference	±0.02 ppm
External Reference	As per external 10MHz ref
Level	-5 to +5 dBm; Unit will automatically switch to internal reference if external reference level falls below 0 dBm nominal*
Phase Noise:	
100 Hz	-63 dBc/Hz max
1 KHz	-73 dBc/Hz max
10 KHz	-83 dBc/Hz max
100KHz	-93 dBc/Hz max
I/P VSWR	1.3 : 1 max
O/P VSWR	1.3 : 1 max
Noise Power Density (NPD):	-75 dBm/Hz max in Tx Band -145 dBm/Hz max in Rx Band (10.95 - 12.75 GHz)

Operating Power Requirement

Operating Voltage	200 to 240 VAC
Power Consumption (Watts)	800 (80W), 1000 (100W), 1100 (200W) max

Interfaces

Input Interface	N-type
Output Interface	WR75 SQ Cover Groove
Output Sample	N-type

Monitor & Control

Monitor	Lock / Unlock status Temperature reading RF output power reading
Control	SSPA On/ Off Gain adjustment
Interface	
80W/100W	Via PC: RS232/485 (TCPIP option available) Via Modem: FSK option available Via Hand-Held Terminal: RS232 option available
200W	Via PC: RS232/485 Via Modem: FSK option available Via Hand-Held Terminal: RS232 option available Via PC: Ethernet

Redundancy

External Redundancy Controller required

LED Status

Green	Normal
Red	Fault
Blue	PA Off

Input Reference

Frequency Reference	10 MHz to be supplied external via L-band cable (Internal 10 Mhz ref option available)
Input Level	-5 to +5 dBm

Environmental Conditions

Operating Temperature	-40°C to +55°C
Humidity	0 to 100%

Mechanical

Dimensions (L x W x H)	364 x 265 x 279.5 mm / 14.3 x 10.4 x 11 inches
Weight	
80W/100W	19.6 kg / 43.2 lb
200W	20.7 kg / 45.6 lb

*Applicable to internal reference model only

All specifications & designs are subject to changes without notice

Version 2302

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