



**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

- 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



Cert No. E08093



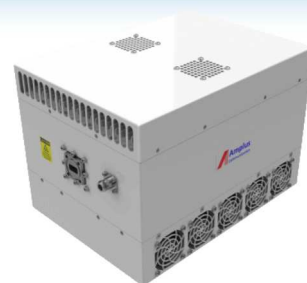
ISO 9001



ISO 14001



OHSAS 18001



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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
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	±2 x 10 ⁻⁸
External Reference	As per external 10MHz ref
Level	0 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):	
TX BD	-70 dBW / 4 KHz
RX BD	-150 dBW / 4 KHz

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	CPR 75G

Monitor & Control

Monitor	Lock / Unlock status Temperature reading RF output power reading
Control	SSPA On/ Off Gain adjustment
Interface	Via PC : RS 232/485 (TCP-IP option available) Via Modem : FSK option available Via Hand-Held Terminal : RS 232 option available

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)	355 x 205 x 175 mm / 14 x 8 x 7 inches
Weight	18 kg / 39.7 lbs

*Applicable to internal reference model only

**All specifications & designs are subject to changes without notice*

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