



25W, 40W, 50W GaN

# AM-9341 Series Ku-Band BUC

## All-In-One Package for Crucial VSAT Networks

### Key Features & Benefits

- Integrated BUC for Better Performance & Reliability
- High Frequency Stability
- Low Power Consumption
- Monitoring & Controlling through RS232/485, TCP/IP & FSK
- Tricolour LED Status Indicator to Identify BUC Status Instantly
- Light Weight & Compact Design
- Weather-Proof, IP65 Standard
- Wide Range Operating Supply
- Built-in Receive Reject Filter (RRF)

### Optional Features & Accessories

- Built-In 10 MHz Reference with Automatic 10 MHz External Reference Input Detector
- Handheld Terminal for M&C
- FSK M&C Interface
- Outdoor AC/DC Power Supply Unit (PSU)
- Indoor AC/DC Power Supply Unit (PSU)
- Remote Mounting Kit
- Waveguide Output Isolator

### 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	$P_{SAT}$ 25 (44), 40 (46), 50 (47)
	$P_{LINEAR}$ 12 (41), 20 (43), 25 (44)
Gain	70 dB nominal
Gain Flatness	±2dB typical
Gain Stability over Temperature	±2dB
Gain Control Range	20dB in 0.5dB step nominal
Intermodulation Product	-25dBc max (3dB total back-off from rated power)
Spurious	-55 dBc max
Frequency Stability over Temperature:	
Internal Reference	±0.02 ppm
External Reference	As per external 10 MHz 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
100 KHz	-93 dBc/Hz max
I/P VSWR	1.5 : 1 max
O/P VSWR	1.5 : 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	35 to 60 VDC
Power Consumption (Watts)	
25W Model	205W typical
40W Model	275W typical
50W Model	280W typical

### Interfaces

IF input Interface	N type
Output Interface	WR 75G

### LED Status

Green	Normal
Red	Fault
Blue	PA Off

### Monitor & Control

Monitor	Lock / Unlock status Temperature reading RF output power reading
Control	SSPA On/Off Gain adjustment
Interface	Via PC : TCP-IP (RS232/485 option available) Via Modem : FSK option available Via Hand-Held terminal : RS 232 option available

### Redundancy

External Redundancy Controller require

### Input Reference

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

### Environmental Conditions

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

### Mechanical

Dimensions	220L x 137W x 107H mm / 8.67L x 5.39W x 4.21H inches
Weight	3.5 kg / 7.7 lb

### Compliance Standard

MIL-STD-344A	Environmental Stress Screening (ESS)
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\*Applicable to internal reference model only

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

*Version 2302*