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.

16W GaAs

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_{1dB} W(dBm)	16 (42)
Gain	60 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	18 to 60 VDC
Power Consumption (Watts)	105 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 required

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)

*Applicable to internal reference model only

All specifications & designs are subject to changes without notice

Version 2302

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