

## **ALB129 Series**

Super Compact 80W Ku-Band Block-Up Converter

lgilis

This small and lightweight BUC is ideal for mobile and satellite uplink applications.

The BUC has "Best in Class" efficiency and "lowest power consumption." The unit works on a wide range AC power supply of 96VAC to 264VAC. Innovative and efficient thermal design makes this BUC one of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

Extensive M/C interface with RS232/RS485/Ethernet (SNMP & HTTP), and Wifi.

#### **Quality Assurance**

100% of all BUCs go through stringent quality checks in addition to well defined Electrical Stress Screening to ensure operation in harsh outdoor environments. The BUCs are also subjected to seal test for water ingress verification.

#### Reliability

Field proven under harsh environment conditions, Agilis ODUs can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

#### **Features**

- Compact and lightweight
- · Available in standard and extended Ku-Band
- · Forward & reverse power detection
- · Input power detection
- Intuitive monitoring & control through RS232/RS485 & Ethernet (SNMP & HTTP), and Wifi.
- · Automatic fault identification & alarm generation
- · Temperature compensation facility
- · Built-in redundancy facility
- · Built-in 10MHz reference with auto-detection
- Sample port for output monitoring
- Wide operating temperature range -40°C to +60°C
- RoHS Compliant
- Waterproof

# **ALB129 Series**

Super Compact 80W Ku-Band Block-Up Converter

### **Technical Specifications**

**RF** Specifications



Jgilis

#### Monitor And Control

Transmit Frequency	14.00GHz – 14.5GHz	Monitor	BUC temperature
	13.75GHz – 14.5GHz		Status alarm
IF Frequency Range	950MHz – 1450MHz		Output power
	950MHz – 1700MHz		Reverse power
LO Frequency	13.05GHz		Input power
	12.80GHz		LED status indication
Output Power P1dB		Control	Attenuation
80W	49dBm	Control	Attenuation RF output mute
			RF ouiput mate
Spectral Re-growth	30dBc	Interface	RS232/RS485 & Ethernet (SNMP & HTTP)
Third Order Intermod (two tone)			WIFI (Optional)
	carrier at 3dB total power backoff from P1dB		
Small Signal Gain	· · · · · · · · · · · · · · · · · · ·	Tx Redundancy	with external RCU
80W	70dB Min		
Gain Flatness Full Band	±2dB	Environmental	
Gain Slope over 40MHz	±1dB		
Gain Variation over temperature		Operating Temperature	-40°C to +60°C
Gain Control	20dB in step of 0.5dB		
O/P spurious	According to EN301428	Humidity	Up to 100%
Phase Noise @ Offset			Weather protection sealed to IP65
1KHz	-73dBc/Hz	Mechanical	
10KHz	-83dBc/Hz	Mechanica	
100KHz	-93dBc/Hz	Size	
I/P VSWR	1.3:1	80W	320L x 197W x 97H mm
O/P VSWR	1.25:1		
Noise Power Density Tx BD	70dBW/4KHz	Weight	
Rx BD	142dBW/4KHz	80W	4kg
		Color	White Powder Coat
DC Power		color Compliance Standa	
	24VDC / 48VDC		
DC Power Prime Power	24VDC / 48VDC 230VAC (range 96V to 264VAC) (optional)	Compliance Standa	ard
Prime Power	24VDC / 48VDC 230VAC (range 96V to 264VAC) (optional)	Compliance Standa	International Safety Standard for Information
Prime Power Power Consumption	230VAC (range 96V to 264VAC) (optional)	Compliance Standa	International Safety Standard for Information Technology Equipment
Prime Power		Compliance Standa	International Safety Standard for Information Technology Equipment Electromagnetic Compatibility and Radio Spectrum
Prime Power Power Consumption 80W / 100W	230VAC (range 96V to 264VAC) (optional)	Compliance Standa	International Safety Standard for Information Technology Equipment Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC)
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