

## **ALB150 Series**

Compact 20W/40W X Band Block-Up Converter

Designed to mount directly to the feedhorn, ideal for mobile and satellite uplink applications.

Innovative and excellent efficiency thermal design makes this BUC one of the most power efficient, robust, rugged, and reliable to operate under harsh outdoor environment.

Easy installation with redundancy ready features to work in 1+1 redundancy mode.

#### **Features**

- Feed mountable
- · Forward, reflected and input power detection
- Monitoring and Control through Serial and Ethernet ports
- · Fault identification and alarm generation
- LED status and alarm indicator
- Auto gain control throughout operating temperature
- Built-in redundancy ready
- Wide DC input ranging 38 to 60Vdc
- Wide operating temperature -40°C to +60°C
- IP65 Weatherproof
- RoHS Compliant

#### **Quality Assurance**

100% thorough stringent quality checks in addition to well-defined Electrical Stress Screening to ensure operation in harsh outdoor environment conditions. All subjected to seal test for water ingression verification.

#### Reliability

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



## ALB190/290 Series

# Compact 20W/40W X Band Block-Up Converter



## **Technical Specifications**

#### **RF** Specifications

Freq Band	Transmit	IF		LO
Standard	7900 – 8400MHz	950 – 1450MHz		6950MHz
Output Power	P <sub>1dB</sub>			Plinear
20W	43.0dBm (20\	N)	40.0dBm (10W)	
40W	46.0dBm (40\	N)	43.0dBm (20W)	

Small Signal Gain 69dB min

Gain Flatness ±2dB within band

**Gain Variation** ±2dB within band over operating temperature

Intermodulation -27dBc max @ Plinear

Spurious According to EN 301 443

Phase Noise -100dBc/Hz max @100KHz offset
-90dBc/Hz max @10KHz offset
-80dBc/Hz max @1KHz offset

VSWR 2.0:1 max @input 2.0:1 max @output

#### AC/DC Power

Prime Power 38 to 60Vdc auto range Power Consumption 144VA typ @20W 240VA typ @40W

#### Interface

IF Input N-Type Female 50Ω

F-Type Female 75 $\Omega$  (option)

RF Output WR112 Grooved

#### Reference Requirement

 Frequency
 10MHz

 Power Level
 -5dBm to +5dBm

Phase Noise -160dBc/Hz max @100KHz offset

-155dBc/Hz max @10KHz offset -150dBc/Hz max @1KHz offset

#### Monitor & Control

**Monitor** BUC Temperature

Status Alarm with LED Indicator

LO Unlock Alarm

RF Input & Forward Power Detection
Output Reflected Power Detection
Gain adjustable 30dB with 0.5dB step

RF Output On/Mute

Communication Port Serial RS232/RS485

Ethernet (SNMP & HTTP)

Transmit Redundancy Built-In

#### Environmental

Control

Operating Temperature -40°C to +60°C
Relative Humidity Up to 100%
Weatherproof IP65

#### Mechanical

Dimension (excludingL223 x W171 x H88mminterface connectors)L8.78" x W6.73" x H3.46"

**Weight** 4.0Kg / 8.8lbs

NOTE: All specifications subject to change without notice 200422

# ALB190/290 Series

### Compact 20W/40W X Band Block-Up Converter

#### Standard Part List for Standalone Configuration

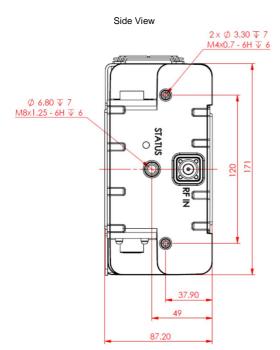
ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	BUC			01	BUC
2	Cable DC	DC Power Supply	2502041298	01	Cable Assembly DC 12-3S to Unterminated 2M
3	Cable M&C	RS232/485	2502040500	01	Cable Assembly M&C - 232/485 12-8P to DB9 (F) 3M
4	Cable M&C	ETH	2502041313	01	Cable Assembly M&C - ETH 12-8P to RJ45 2M
5	Converter	RS485	6103480008	01	Converter USB to RS485
6	Mounting Accessory Set			01	Mounting screws including brackets, screws, studs, gasket for flange WR112

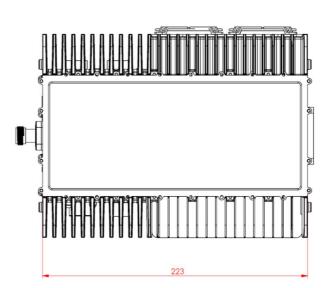
#### Mounting Diagram

Side View

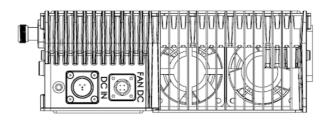
2 x ∅ 3.30 ▼ 7

M4x0.7 - 6H ▼ 6





Top View



Side View

