

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 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
- 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 Environmental 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.



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Technical Specifications

RF Specifications

Freq Band	Transmit	IF		LO	
Standard	7900 – 8400MHz	950 – 1450MHz		6950MHz	
Output Power	P _{1dB}			Plinear	
20W	43.0dBm (20\	N)	40.0dBm (10W)		
40W	46.0dBm (40\	N)	43.0dBm (20W)		
Small Signal Gain	66dB min (20W), 69dB min (40W)				

Gain Flatness ±2dB within band, ±1dB over 40MHz span

Gain Variation ±2dB within band over operating temperature

Intermodulation -27dBc max @ Plinear

Spurious According to EN 301 443

-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

Phase Noise

 Prime Power
 38 to 60Vdc

 Power Consumption
 144VA typ @20W

 240VA typ @40W

Interface

IF Input N-Type Female 50Ω F-Type Female 75Ω (option)

RF Output WR112 Grooved

External 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

Control Gain adjustable 30dB with 0.5dB step

RF Output On/Mute

Communication Port Serial RS232/RS485

Ethernet (SNMP & HTTP)

Transmit Redundancy Redundancy-Ready (with ext. controller unit)

Environmental

Mechanical

Dimension (excluding L223 x W171 x H88mm interface connectors) L8.78" x W6.73" x H3.46"

Weight 4.0Kg / 8.8lbs

NOTE: All specifications subject to change without notice 200422



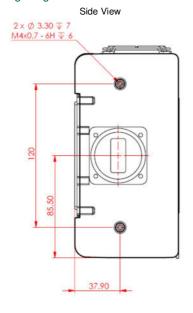
ALB150 Series

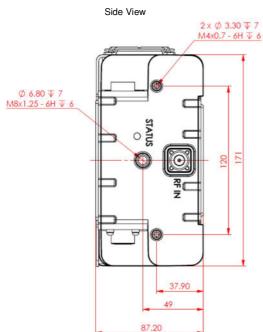
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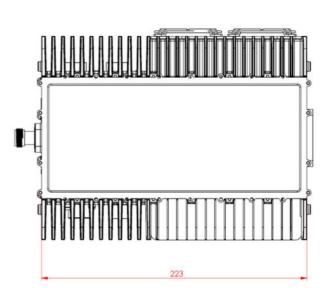
Standard Part List for Standalone Configuration

ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	BUC			01	BUC
2	Cable DC	DC Power Supply	2502041298	01	C/A DC 12-3S to Unterminated 2M
3	Cable M&C	RS232/485	2502040500	01	C/A M&C 232/485 12-8P to DB9 (F) 3M
4	Cable M&C	ETH	2502041313	01	C/A 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







Top View



