



ALB210 Series

Compact 8W/10W Ka 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 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 power detection
- Monitoring and Control through Serial port
- Fault identification and alarm generation
- LED status and alarm indicator
- Auto gain control throughout operating temperature
- Wide DC input ranging 18 to 51Vdc
- 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 ingress 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

Transmit	IF	LO
29.0 – 30.0GHz	950 – 1950MHz	28.05GHz
29.0 – 29.5GHz / 29.5 – 30.0GHz	950 – 1450MHz	28.05GHz / 28.55GHz

Output Power	P _{sat}	P _{linear}
8W	39.0dBm (8W)	36.0dBm (4W)
10W	40.0dBm (10W)	37.0dBm (5W)

Small Signal Gain	58dB min
Gain Flatness	±2dB over 1GHz ±0.75dB over 40MHz
Gain Variation	±2dB within band over operating temperature
Spectral Regrowth	-30dBc max @ P _{linear} at 1.0x symbol rate offset for single OQPSK or at 1.5x symbol rate offset for single QPSK
Spurious	-60dBc typ
Phase Noise	-95dBc/Hz max @100KHz offset -81dBc/Hz max @10KHz offset -75dBc/Hz max @1KHz offset
VSWR	1.5:1 max @input 2.0:1 max @output

AC/DC Power

Prime Power	18 to 51Vdc
Power Consumption	88VA max @ P _{sat}

Interface

IF Input	N-Type Female 50Ω
RF Output	WR28 Grooved
M&C Control	PT02E-14-12P

External Reference Requirement

Frequency	50MHz
Power Level	-5dBm to +5dBm
Phase Noise	-130dBc/Hz max @1KHz offset -105dBc/Hz max @100Hz offset

Frequency	10MHz
Power Level	-5dBm to +5dBm
Phase Noise	-150dBc/Hz max @1KHz offset -145dBc/Hz max @100Hz offset

Monitor & Control

Monitor	BUC Temperature Status Alarm with LED Indicator LO Unlock Alarm RF Forward Power Detection
Control	Gain adjustable 30dB with 0.1dB step RF Output On/Mute
Communication Port	Serial RS232/RS485/RS422 Ethernet (SNMP & HTTP)
Transmit Redundancy	Redundancy-Ready (with external controller unit)

Environmental

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

Mechanical

Dimension (excluding interface connectors)	L180 x W100 x H57mm L7.1" x W3.9" x H2.2"
Weight	1.56Kg / 3.44lbs

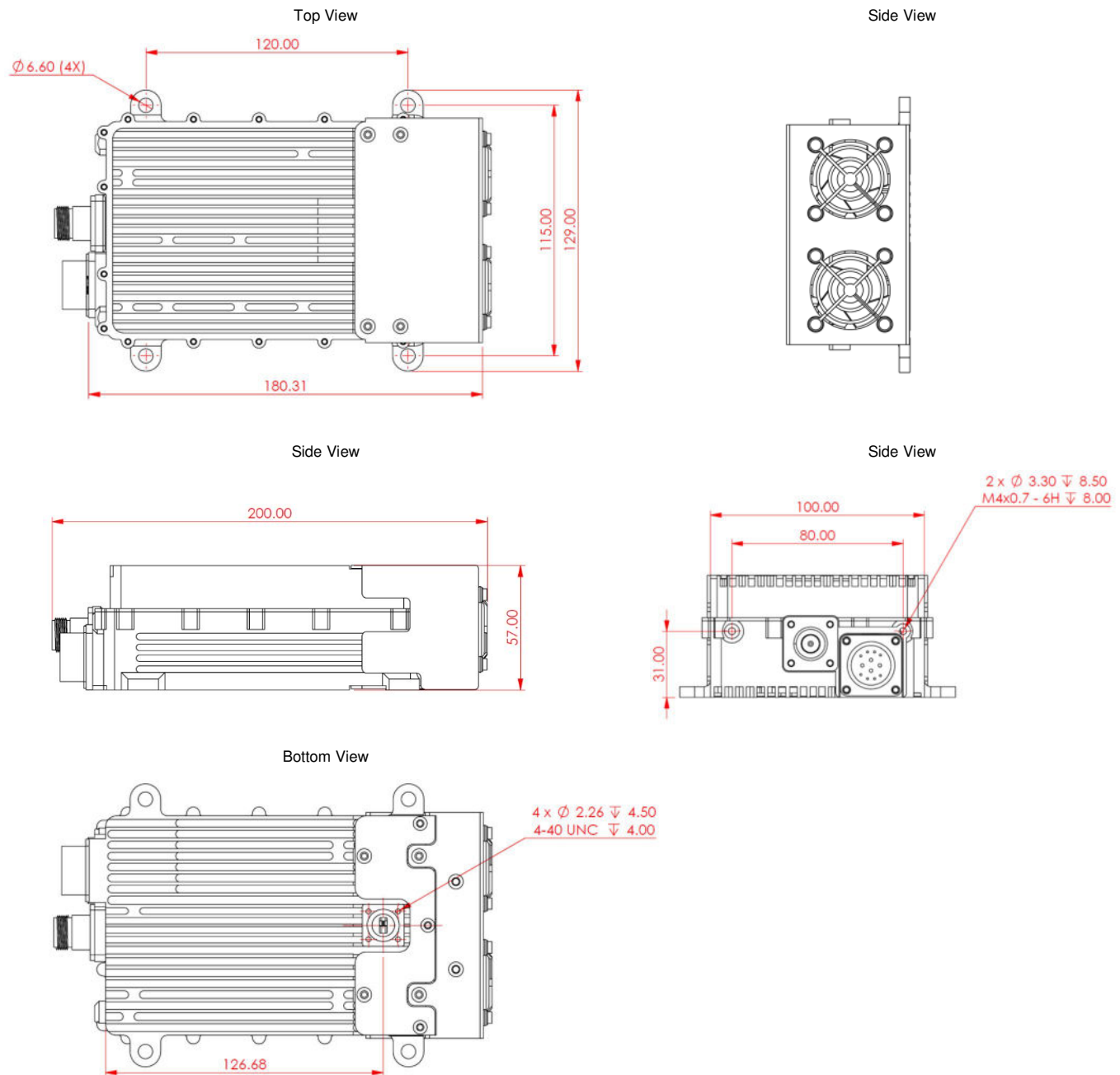
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Standard Part List for Standalone Configuration

ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	BUC			01	BUC
2	Prime Power Input Cable		2502042067	01	C/A M&C + DC Unterminated 2M
3	Cable M&C		6103480008	01	Converter USB to RS485
4	O-Ring		6401240110	02	O-Ring for Flange WR28
5	Mounting Screw			1 set	

Mounting Dimension Drawing



NOTE: Part list and drawing subject to change without notice
B00L24