

## **ALB150 Series**

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4W X-Band VSAT Outdoor Block-Up Converter

ALB150 Series X-Band BUC (Block-Up Converter) is a highly cost-effective RF outdoor transmitter for satellite communication. The BUC has very high output power linearity and works well from -40°C up to 60°C. The BUC also has a wide input voltage range which allows it to work from 18V to 60V.

Agilis X-Band BUC is designed for high reliability operation in various applications such as flyaway antenna. The BUC also has the most complete M&C features in the industry.

Easy to install, it is redundancy-ready and field-proven for any harsh operating environment. It is suitable for both data and voice communication operating in different modulation formats.

Agilis X-Band BUC is a compact design that comprises of Upconverter, Solid State Power Amplifier, Phase Locked Oscillator and DC-DC power converter. It employs L-Band IF interface to the indoor unit.

#### **Features**

- Direct antenna mount
- Wide operating temperature range -40°C to +60°C
- Wide input D.Č voltage range 18V to 60V
  Standard RS232/485 interface & optional
- SNMP/HTTP M&C option

  Excellent linearity
- Extremely reliable
- High power efficiency
- Excellent phase noise characteristics
- Low spurious
- Automatic temperature compensation feature
- · RoHS compliant
- · Waterproof with IP65 standard
- Easy installation
- Redundancy option
- · LED indicator for BUC status

### Monitoring and Control (Optional)

- SSPA on/off Control
- Automatic gain control with level stability
- accuracy better than  $\pm 0.5$ dB Adjustable gain
- Temperature sensor reading
- LO unlocked alarm
- Input power detection
- Output power detection
- SNMP/Ethernet (Optional)

### Reliability

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

### **Quality Assurance**

All Agilis ODUs go through intensive active electrical stress screening with performance being monitored during screening. In addition, all units undergo 100% waterproof test equivalent to IP65 to ensure normal operation in tropical, cold and harsh environments.

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## **Technical Specifications**

### **Frequency Range**

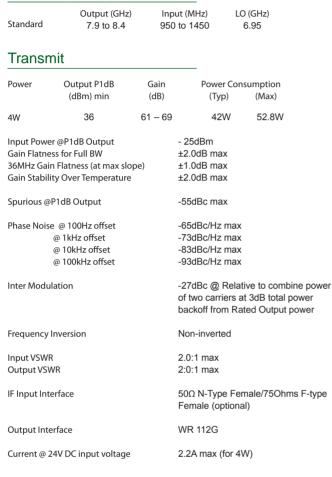
Environmental Operating Temperature

**External Reference Requirement** 

**Relative Humidity** 

Frequency Phase Noise

Power



-40°C to + 60°C

External Reference Dependent

up to 100%

10MHz

-5 to +5dBm



### Monitor And Control (optional)

Monitor	BUC temperature LO unlocked alarm Status alarm RF Input and RF Output Power LED status indicator
Control	Adjustable gain with 0.5dB step size RF output mute
Interface Optional	RS232/485 Ethernet (SNMP + HTTP)
Power Supply Requirement	
DC Input Voltage for BUC 4W, 6W & 8W	+18VDC to +60VDC
Power Supply Interface	Common input via IFL (N-type connector/ F-type Female connector)
Mechanical	
Dimensions	282L x 140W x 60H mm / 11.1L x 5.5W x 2.4H in (4W)
Weight	3.3kg / 7.27lbs (4W)
Colour	White Powder Coat
Compliance Standard	
IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the fixed Satellite Service (FSS)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
FCC Part 15 Class B	Two levels of radiation and conducted emissions Limits for unintentional radiators (FCC Mark)

Note: All specifications are subject to change without notice. Rev. 300112





### **Request A Quote**