

## **ALB110 Series**

Compact 10W Ka-Band Block-Up Converter

This small and light weight new Ka-Band BUC is ideal for mobile and satellite uplink applications. Designed to be mounted on the feed horn, the BUC has excellent efficiency. The unit works on a wide range input DC power supply from 38V to 60V. Innovative and efficient thermal design makes this BUC one of the smallest, lightest and most reliable in the industry.

With redundancy-ready feature, the unit can be easily configured to work in 1:1 redundant mode.

#### Features

- · Compact and lightweight
- Excellent linearity
- Extremely reliable
- High power efficiency
- · Excellent phase noise characteristics
- · Low spurious
- Forward power detection function
- Remote monitor & control through RS232/RS485 and Ethernet (SNMP & HTTP)
- Wide input DC voltage range
- Automatic fault identification & alarm generation
- Automatic temperature compensation feature
- Redundancy option
- Wide operating temperature range -40°C to +60°C
- RoHS compliant
- Waterproof
- LED indicator for BUC status

### **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.



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### **Technical Specifications**

#### **RF** Specifications Monitor & Control Monitor **Transmit Frequency** 28.0GHz to 30.0GHz **BUC** temperature 29.0GHz to 31.0GHz LO unlocked alarm Status alarm IF Frequency Range 950MHz to 1950MHz **RF** Output Power detection LED indication **Output Power @ MOP** 40dBm (10W) Control Adjustable gain with 0.5dB step size RF output mute Small Signal Gain 70dB (min) RS232/RS485, Ethernet (SNMP & HTTP) Interface **Gain Flatness** ±2.0dB tvp Gain Flatness over 40MHz ±1.0dB typ **Tx Redundancy** Redundancy-ready (with external RCU) Gain Variation ±2dB over the operating temperature range Phase Noise @ Offset Environmental 1KHz -75dBc/Hz typ 10KHz -85dBc/Hz typ **Operating Voltage** -40°C to +60°C 100KHz -95dBc/Hz typ Power Supply Interface Up to 100% Spurious -60dBc typ Weather protection sealed to IP65 I/P VSWR 1.5:1 max Mechanical **O/P VSWR** 2.0:1 max Size 203L x 135W x 125H mm Weight 4ka DC Power Color White Powder Coat Prime Power 48VDC (range 38 to 60VDC) Optional AC supply **Compliance Standard Power Consumption** 180W @ 48VDC input IEC 609501-2nd Edition International Safety Standard for Information Technology Equipment Interfaces Electromagnetic Compatibility and Radio Spectrum ETSI EN 301 489-12 IF Input Interface 50Ohms N-type Female / Matters (ERM); ElectroMagnetic Compatibility (EMC) 75Ohms F-type Female (optional) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, **Output Interface** WR28 grooved Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the fixed Satellite Service (FSS) External Reference ETSI EN 301 489-1 Electromagnetic Compatibility and Radio Spectrum Frequency 10 MHz (50MHz optional) Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services Power -5dBm to +5dBm FCC Part 15 Class B Two levels of radiation and conducted emissions External reference phase Limits for unintentional radiators (FCC Mark) noise requirement @ frequency offset 1KHz -150dBc/Hz 10KHz

Note: All specifications are subject to change without notice. Rev. 110714

www.agilissatcom.com

100KHz

For more information, please send enquiry to:

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-155dBc/Hz

-160dBc/Hz

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