

This small and lightweight BUC is ideal for mobile and satellite uplink applications.

The BUC has "Best in Class" efficiency and "lowest power consumption." The unit works on a wide range AC power supply of 96VAC to 264VAC. Innovative and efficient thermal design makes this BUC one of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

Built-in redundancy feature eliminates the use of an external controller for 1:1 redundancy operation. This eliminates messy cabling at the antenna making this a very elegant solution.

Extensive M/C interface with RS232/RS485/Ethernet (SNMP & HTTP), Bluetooth and Wifi.

Features

- Compact and lightweight
- · Available in standard and extended Ku-Band
- Forward & reverse power detection
- Input power detection
- Intuitive monitoring & control through RS232/RS485 & Ethernet (SNMP & HTTP), Bluetooth and Wifi
- Automatic fault identification & alarm generation
- Temperature compensation facility
- · Built-in redundancy facility
- Built-in 10MHz reference with auto-detection
- Built-in receive reject filter
- Sample port for output monitoring
- Wide operating temperature range -40°C to +60°C
- RoHS Compliant
- Waterproof

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.



ALB229 Series

Compact 150W/160W Ku-Band Block-Up Converter

Technical Specifications

RF Specifications

IF Frequency Range

14.0GHz - 14.5GHz **Transmit Frequency**

13.75GHz - 14.5GHz 950MHz - 1450MHz

950MHz - 1700MHz

LO Frequency 13.05GHz

12.80GHz

Output Power Psat / PLinear

150W 51.8 dBm / 48.8 dBm 160W 52.0 dBm / 49.0 dBm

30dBc @ P_{Linear} Spectral Re-growth

Third Order Intermod (two tone) -25dBc @ two signal 2MHz apart at PLinear

Small Signal Gain 80dB Min Gain Flatness Full Band ±2dB Gain Slope over 40MHz ±1dB

Gain Variation over temperature ±1.0 dB @ from -40°C to +60°C

Gain Control 20dB in step of 0.5dB

O/P spurious -60dBc

Phase Noise @ Offset

1KHz -75dBc/Hz 10KHz -85dBc/Hz 100KHz -95dBc/Hz I/P VSWR 1.3:1 O/P VSWR 1.25:1 Noise Power Density Tx BD 70dBW/4KHz

Rx BD 142dBW/4KHz

DC Power

Prime Power 230VAC (range 96V to 264VAC)

Power Consumption 1280W

Interfaces

IF Input Interface 50Ohms N-type Female

Output Interface WR 75G

External Reference

Frequency Power -5dBm to +5dBm Internal reference Built-in (Auto detection)

External reference phase noise Requirement @ frequency offset

1KHz -150dBc/Hz 10KHz -155dBc/Hz 100KHz -160dBc/Hz



Monitor And Control

Monitor **BUC** temperature

Status alarm Output power Reverse power Input power LED status indication

Control Attenuation

RF output mute

Interface RS232/RS485 & Ethernet (SNMP & HTTP)

Bluetooth / WIFI (Optional)

Tx Redundancy Built-in

Environmental

Operating Temperature -40°C to +60°C

Humidity Up to 100%

Weather protection sealed to IP65

Mechanical

400L x 250W x 253H mm Size

Weight 18 kg

Color 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 Class A Two levels of radiation and

conducted emissions Limits for unintentional radiators (FCC Mark)

Note: All specifications are subject to change without notice. Rev 050313



For more information, please send enquiry to:

