

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.

Ku-Band Block-Up Converter

Reliability

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

BUY NOW



ALB229 Series

Compact 80W/100W Ku-Band Block-Up Converter

Technical Specifications

RF Specifications

 Transmit Frequency
 14.00GHz – 14.5GHz

 13.75GHz – 14.5GHz
 13.75GHz – 14.50MHz

 IF Frequency Range
 950MHz – 1450MHz

 950MHz – 1700MHz
 13.05GHz

D Frequency 13.05GHz 12.80GHz

Output Power Psat / PLinear

 80W
 49dBm / 46dBm

 100W
 50dBm / 47dBm

 Spectral Re-growth
 30dBc @ PLinear

Third Order Intermod (two tone) -25dBc @ two signal 2MHz apart at P_{Linear}

Small Signal Gain

 80W / 100W
 70dB Min

 Gain Flatness Full Band
 ±2dB

 Gain Slope over 40MHz
 ±1dB

Gain Variation over temperature ±2dB @ from -40°C to +60°C Gain Control 20dB in step of 0.5dB O/P spurious According to EN301428

Phase Noise @ Offset

 1KHz
 -73dBc/Hz

 10KHz
 -83dBc/Hz

 100KHz
 -93dBc/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

80W / 100W 550VA Typical

Interfaces

IF Input Interface 50Ohms N-type Female

Output Interface WR 75G

External Reference

 Frequency
 10MHz

 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

Size

80W / 100W 360L x 200W x 145H mm

Weight

80W / 100W 9.5kg

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. 261211

