

ALB190 Series

Compact 20W/25W/40W/50W C-Band Block-Up Converter

Agilis

This small and lightweight BUC is ideal for mobile and satellite uplink applications. Designed to be mounted on the feed horn, the BUC has excellent efficiency and consumes less than 250W for 50W C-Band BUC. The unit works on a wide range DC power supply of 38V to 60V. The BUC is able to work up to 60°C. 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
- Can be powered directly from iDirect X7 modem
- Wide operating temperature range -40°C to +60°C
- Wide input DC Voltage range 38V to 60V
- Optional input AC Voltage
- Standard remote monitor & control through RS485, optional Ethernet (SNMP & HTTP)
- Excellent linearity
- · Extremely reliable
- High power efficiency
- Available for all C-Band frequency ranges
- Excellent phase noise characteristics
- Low spurious
- Forward power detection facility
- Automatic fault identification & alarm generation
- Automatic temperature compensation feature
- Redundancy ready
- RoHS compliant
- Waterproof with IP65 standard
- 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.

Frequency Band

INTELSAT

- Tx : 5.850 to 6.425GHz
- IF : 950 to 1525MHz
- LO : 7375 MHz / 4900MHz

INSAT

- Tx : 6.725 to 7.025GHz
- IF : 1100 to 1400MHz
- LO : 8125MHz / 5625MHz

PALAPA / ST1

- Tx : 6.425 to 6.725GHz
- IF : 1150 to 1450MHz
- LO : 7875MHz / 5275MHz
- FULL C
- Tx : 5.850 to 6.725GHz
- IF : 950 to 1825MHz
- LO : 7675MHz / 4900MHz

Table 1

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Technical Specifications

RF Specifications



External Reference Requirement

Frequency	10MHz	
Power	-5dBm to +5dBm	
External reference phase		
noise requirement @ frequency offset		
1KHz	-150dBc/Hz	
10KHz	-155dBc/Hz	
100KHz	-160dBc/Hz	

Monitor & Control

Monitor	BUC Temperature LO unlocked alarm Status alarm RF Output Power LED status indicator
Control	Adjustable gain with 0.5dB step size RF output mute
Interface	RS232/RS485 (Standard) Ethernet (SNMP & HTTP) (Optional)
Tx Redundancy	1:1 Redundancy-ready (with external RCU)
Environmental	
Operating Temperature	-40°C to +60°C Optional (-40°C to +70°C for 40W)
Humidity	Up to 100% Weather protection sealed to IP65
Mechanical	
Size	235L x 175W x 90H mm
Weight	235L x 175W x 150H mm / (AC option) 3.9kg / 8.6lbs
Color	5.7kg / 12.6lbs (AC option) White Powder Coat
Compliance Stand	lard
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 (EM Standard for radio equipment and services; Part 12 Specific conditions for Very Small Aperture Termina Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in th 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 subj Rev. 160414	ect to change without notice.

Agilis

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