

ALB150 Series

700W X-Band Block-up Converter

Agilis ALB150 Series X-Band BUC is a highly cost effective outdoor RF transmitter for satellite communication.

The BUC has excellent efficiency and consumes less power due to the innovative and efficient thermal design.

Built-in redundancy-ready 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 RS232/485 and Ethernet (SNMP & HTTP).

Features

- · Forward & reverse power detection facility
- Input power detection facility
- Intuitive monitoring & control through RS232/485 and Ethernet (SNMP & HTTP).
- · Automatic fault identification & alarm generation
- Temperature compensation facility
- Built-in redundancy facility
- Built-in 10MHz reference
- 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.



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Technical Specifications

RF Specifications

Monitor & Control

Tri opecifications			
Transmit Frequency IF Frequency Range Output Power @ P1dB	7900MHz to 8400MHz 950MHz to 1450MHz 58.4dBm	Monitor	BUC Temperature Status Alarm RF Output Power/RF Input Power RF Reflected Output Power
Small Signal Gain	80dB nominal		LED Status Indication
Gain Flatness Gain Variation	±2.0dB over the O/P frequency band ±2.0dB over the operating temperature range	Control	Attenuation RF output mute
Gain Control Inter Modulation	20dB in step of 0.5dB -25dBc @ Relative to combine power of two carriers at 3dB total power backoff	Interface	RS232/485, Ethernet (SNMP & HTTP)
	from Rated Output power (P1dB)	Tx Redundancy	In-built
O/P spurious Phase Noise @ Offset	According to EN301443	Environmental	
1KHz 10KHz 100KHz	-73dBc/Hz -83dBc/Hz -93dBc/Hz	Operating Temperature	-40°C to +60°C
I/P VSWR O/P VSWR	1.5.1 1.5.1	Humidity	Up to 100% Weather protection sealed to IP65
		Mechanical	
DC Power Requireme	ent		
Prime Power	For AC (230VAC, 50 – 60Hz)	Size	475L x 464W x 420H
Power Consumption	5.0kVA	Weight	55kg
Interfaces		Color	White Powder Coat
IF Input Interface	50Ohms N-type Female	Compliance Standard	
Output Interface	WR 112G	IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
External Reference Requirement		ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic
Frequency	10MHz		Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth
Power	-5dBm to +5dBm		Stations operated in the frequency ranges between
Internal 10MHz Ref	In-built (auto-detection)		4 GHz and 30 GHz in the fixed Satellite Service (FSS)
External reference phase noise requirement @frequency offset 1kHz 10kHz 100kHz	-150dBc/Hz -155dBc/Hz -160dBc/Hz	ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
ΙυυκπΖ	- 100000/112	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. 170114



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