

ALB130 Lite Series

Fanless Lite 16W Ku-Band Block-Up Converter

This small and lightweight BUC is ideal for SOTM applications while also offering benefits for fixed and maritime applications.

Designed to be mounted on the feed horn, the BUC has "Best in Class" efficiency and "lowest power consumption". The unit works on a wide range DC power supply of 60V. Innovative and efficient thermal design makes this BUC one of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

The unit can be configured to work in 1:1 redundant mode by adding on a simple redundancy option to the basic unit.

Features

- Fanless
- Compact and lightweight
- Can be powered directly from: iDirect X7 modem
- Best in class efficiency with less power consumption.
- Available in both standard and extended Ku-Band
- Forward power detection facility
- Intuitive monitoring & control through RS232/RS485 & Ethernet (SNMP & HTTP)
- Auto ranging 38 to 60VDC/18 to 32VDC
- Automatic fault identification & alarm generation
- Wide operating temperature range -40°C to +65°C
- IP65 rated housing (weather proof construction)
- · RoHS compliant

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 $+55^{\circ}$ C with up to 100% humidity.



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Agilis

Technical Specifications

RF Specifications			Monitor & Control	
Transmit Frequency	13.75 – 14.5GHz 14.0 – 14.5GHz	(EXT Ku)	Monitor	BUC temperature
F Frequency Range	14.0 – 14.5GHZ 950 – 1700MHz	(STD Ku) (EXT Ku)		Status alarm
Trequency Kunge	950 – 1450MHz	(STD Ku)		RF output power LED status indication
.O Frequency	13.05GHz	(STD Ku)		
	12.8GHz	(EXT Ku)	Control	Attenuation
Output Power (P1dB)	42dBm (16W)	× ,		RF output mute
Small Signal Gain	68dB Min		Interface	RS232/RS485 & Ethernet (SNMP & HTTP)
iain Flatness	±2dB over the O/P frequency band ±2dB over the operating temperature range		Ty Dodundonov	via external MS connector
ain Variation				
ain Control nter modulation	20dB in steps of 0.5dB -25dBc @ Relative to combine power of two		Tx Redundancy	External RCU (optional for 1+1 redundancy
	carriers at 3dB total			system requirement
	P1dB			
)/P spurious			Environmental	
Phase Noise @ Offset	According to EN301	420	Operating Temperature	-40°C to +55°C
1KHz	-73dBc/Hz			
10KHz	-83dBc/Hz		Relative Humidity	Up to 100%
100KHz	-93dBc/Hz			Weather protection sealed to IP65
/P VSWR	1.5:1		Mechanical	
D/P VSWR	1.25:1 (with optional	external isolator)	Size	195L x 93W x 95H mm
loise Power Density Tx BD	70dBW/4KHz			
Rx BD	142dBW/4KHz		Weight	1.6kg
DC Power			Color	White Powder Coat
Prime Power	24VDC (range 24 to		Compliance Standard	
	48VDC (range 38 to 60VDC) via external MS connector (IFL power optional) Can be powered via: iDirect X7 modem			
			IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
Power Consumption	135W (Typical for 16W)		ETSI EN 301 489-12	
			ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC
				Standard for radio equipment and services; Part 12:
nterfaces				Specific conditions for Very Small Aperture Terminal
F Input Interface	500hms N-type Fem			Satellite Interactive Earth Stations operated in the
in input interface	Soonins N-type I en	laic		frequency ranges between 4GHz and 30GHz in the
Dutput Interface	WR 75G			Fixed Satellite Service (FSS)
			ETSI EN 301 489-1	Electromagnetic Compatibility and Radio
External Reference				Spectrum Matters (ERM); ElectroMagnetic
Frequency	10MHz			Compatibility Standard for Radio Equipment
Power	-5dBm to +5dBm			and Services
external reference phase			FCC Class A	Two levels of radiation
ioise requirement @ frequency offset				and conducted emissions
KHz	-135dBc/Hz			Limits for unintentional
0 KHz	-145dBc/Hz			radiators (FCC Mark)
00 KHz	-155dBc/Hz			
			Note: All specifications are subject to change without notice. Rev. 240214	
			1157. 2402 14	

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