

## **ALB150 Series**

20W/40W BUC Ultra Slim X-Band

This series of slim BUCs offer the highest power/weight ratio. At a mere 4.8Kgs the 40W BUC provides highly reliable performance over a wide temperature range. Being highly linear, the BUC can be used in multi carrier applications. The innovative thermal management techniques increase long term reliability.

#### Features

- · Ultra slim, compact and lightweight
- Available for all X-Band frequencies
- Easy installation
- Excellent linearity
- Extremely reliable
- · Excellent phase noise characteristics
- · Low spurious
- High power efficiency
- Built-in M&C, remote monitor & control through RS232/RS485 (Ethernet-optional)
- Wide input DC voltage range
- Automatic fault identification & alarm generation
- Automatic temperature compensation feature
- RoHS compliant
- Waterproof

#### Enhanced Monitoring and Control (M&C)

M&C via RS232/485 covers:

- Temperature monitoring
- RF inhibit selection
- Gain adjustment
- Automatic fault identification & alarm

#### Reliability

Field proven under harsh environment conditions, Agilis Outdoor BUC can withstand temperature ranging from -20°C to +50°C with up to 100% humidity.

#### **Quality Assurance**

Agilis Outdoor BUCs go through intensive active electrical stress screening test. In addition, all units undergo 100% waterproof test equivalent to IP55 to ensure reliable operation during tropical, cold and harsh environment.



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**RF** Specifications

### **Technical Specifications**



#### Monitor & Control

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Transmit Frequency	7900MHz to 8400MHz	Monitor	BUC temperature Status alarm
IF Frequency Range	950-1450MHz		RF output power
Output Power @ P1dB	43dBm min (for 20W) 46dBm min (for 40W)	Control	Temperature threshold setting BUC On/Off Control
			Adjustable gain with 0.5dB step size
Small signal Gain	70dB (typical for 20W) 73dB (typical for 40W)	Ducto officer Interface	
Gain Flatness	±2dB over the O/P frequency band	Protection Interface	Over temperature BUC shutdown Over voltage protection
Gain Variation	±2dB over -20 to +50°		Over current protection
Inter modulation	-25dBc @ Relative to combine power of two carriers at 3dB total power backoff from	Interface	RS232/RS485, Ethernet (optional)
	Rated Output power	Environmental	
O/P spurious @ Rated Power	-55dBc (In band spurious)	Operating Temperature	-20°C to + 50°C
Phase Noise @ offset		Storage Temperature	-40°C to + 70°C
1KHz	-75dBc/Hz max	Enclosure Rating	IP55
10KHz	-83dBc/Hz max	Vibration	1.04grms, 5-500Hz
100KHz	-93dBc/Hz max	Shock	20g, 11ms, Saw Tooth Pulse, 3 Axes
I/P VSWR	1.5:1 max	Mechanical	
O/P VSWR	2.0:1 max	Size	390L x 367W x 37H mm
Receive Frequency Range	950-950MHz	Weight	4.8kg
Receive Gain	-5dB max	Troight	4.0Kg
Receive Flatness	2dB max over the receive frequency band	Color	White Powder coat / Nickel Plating
DC Power		Compliance Standard	
At Rated output Power of 40W	150W max (for 20W)		
	220W max (for 40W)	IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
At 3 dB backoff from Rated	167W max (for 20W)		
Output Power	332W max (for 40W)	ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC)
Prime Power	48VDC (range 38 to 60VDC)		Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal,
Interfaces			Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the
Input Connectors (Tx IF)	TNC-Female / N-type Female		Fixed Satellite Service (FSS)
Impedance	50Ohms		
RF Output Connector	N-type Female	ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum
(Tx out)			Matters (ERM); ElectroMagnetic Compatibility
Output Impedance	50Ohms		Standard for Radio Equipment and Services
DC and M&C connector	7 pin, Circular	FCC Part 15 Class B	Two levels of radiation and conducted emissions
Communication Interface	RS232, 6 pin, Circular		Limits for unintentional radiators (FCC Mark)
Fan Connector	6 pin, Circular		

Note: All specifications are subject to change without notice. Rev. 300112



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