

# ALB180 Series

20W/40W Block Up Converter **Ultra Slim C-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 C-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 BUC goes 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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## **Technical Specifications**

**RF** Specifications

**Communication Interface** 

Fan Connector

RS232, 6 pin, Circular

6 pin, Circular

# 01403 0 8.

#### Monitor & Control

Intelect	Input	Output	LO	Monitor	BUC Temperature
Intelsat	950 to 1525		4900		Status Alarm
Insat Measat 3	1100 to 1400		5625		RF Output Power
ST-1/Palapa-C	950 to 1750		4975	Control	Temperature threshold setting
Full C	1150 to 1450 950 to 1825		5275 4900		BUC On/Off Control
	950 10 1625	5850 10 6725	4900		Adjustable gain with 0.5dB step size
Output Power @ P1dB		43dBm min (for 20W) 46dBm min (for 40W)		Protection Interface	Over temperature BUC shutdown Over Voltage protection Over current protection
Small signal Gain		70dB (typical for 20W) 73dB (typical for 40W)		Interface	RS232/RS485, Ethernet (Optional)
Gain Flatness		±2dB over the O/P frequency band			
Gain Variation		±2dB over -20 to +50°		Environmental	
Inter modulation		-25dBc @ Relative to		Operating Temperature	-20°C to + 50°C
		carriers at 3dB total po	ower backoff from	Storage Temperature	-40°C to + 70°C
		Rated Output power		Enclosure Rating	IP55
	Datad Dawar	According to EN20144	2	Vibration	1.04grms, 5 – 500Hz
O/P spurious @ Rated Power		According to EN30144	.5	Shock	20g, 11ms, Saw Tooth Pulse, 3 Axes
Phase Noise @ offset 1KHz		-75dBc/Hz max		Mechanical	
10KHz		-83dBc/Hz max			
100KHz		-93dBc/Hz max		Size	390L x 367W x 37H mm
I/P VSWR		1.5:1 max		Weight	4.8kg
O/P VSWR		2.0:1 max		Color	White Powder Coat / Nickel Plating
Receive Frequency Range		950 – 1950MHz			
Receive Gain		-5dB max		Compliance Standard	
Receive Flatness		2dB max over the rece	eive frequency band		
				IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
DC Power					
At Rated output F	Power of 40W	-40°C 200W max (for 2	20\W/\	ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC)
At Nated Output P	- 0wei 01 40w	360W max (for 40W)	2000)		Standard for radio equipment and services; Part 12:
					Specific conditions for Very Small Aperture Terminal,
At 3dB backoff fr	om Rated	160W max (for 20W)			Satellite Interactive Earth Stations operated in the
Output Power		315W max (for 40W)			frequency ranges between 4 GHz and 30 GHz in the
					fixed Satellite Service (FSS)
Prime Power		48V DC (range 38 to 6	OVDC)		
				ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum
Interfaces					Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
Input Connectors	(Tx IF)	TNC-Female / N-type	Female	FCC Part 15 Class B	Two levels of radiation and conducted emissions
Impedance		50Ohms			Limits for unintentional radiators (FCC Mark)
RF Output Conne (Tx out)	ctor	N-type Female			
Output Impedanc	e	50Ohms			
DC and M&C con	nector	7 pin, Circular			
C				Note: All specifications are subject	et to change without potice

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