

Block Up Converter L to C Band (Intelsat/ Insat/ Palapa/ Full C),



10MHz External Reference, N or F Connector, 100 Watts, 150 Watts or 200 Watts, Outdoor Unit



This small and lightweight BUC is ideal for mobile and satellite uplink applications. The BUC has excellent efficiency and consumes less than 1300W for 200W RF Power C-Band BUC. Innovative and efficient thermal design makes this BUC one of the smallest in the industry.

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

Order Examples: RBUC-L(950-1825M)-C(5.850-6.725)-Nf-WR137G-ER10M-150W-ODU-g11

Description: (Block Up Converter, L Band(950-1825MHz) to C(5.850-6.725GHz), N-Female Input Connector, WR137G

Waveguide Output, 10MHz External Reference, 150 Watts, Outdoor Unit)

Additional Options: Input Output Ff(F-Female) Nf(N-Female) 100, 150 or 200 Watts

See Table Below See Table Below Input Output

Features

- Compact and lightweight
- Available for all C-Band frequencies
- Forward & reverse power detection facility
- Input power detection facility
- Intuitive monitoring & control through RS232/485, Ethernet (SNMP & HTTP)
- Automatic fault identification & alarm generation
- Temperature compensation facility
- · Built-in redundancy facility
- Built-in 10MHz reference with auto-detection
- Built-in harmonics reject filter
- Sample port for output monitoring
- Wide operating temperature range -40°C to +60°C
- RoHS Compliant
- Waterproof

Quality Assurance

All BUCs go through stringent quality checks in addition to well defined Electrical Stress Screening to ensure operation in harsh outdoor environments. Our BUCs are also subjected to seal test for water ingress verification

Reliability

Field proven under harsh environment conditions, Our ODUs can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

Frequency		TX (GHz)	IF (MHz)	LO (MHz)
Intelsat/ (Standard)	CInt	5.850 to 6.425	950 to 1525	7375 /4900
Insat	Cln	6.725 to 7.025	1100 to 1400	8125 / 5625
Palapa / ST1	CPal	6.425 to 6.725	1150 to 1450	7875 / 5275
Full C	С	5.850 to 6.725	950 to 1825	7675 / 4900
Extended	Ce	5.725 to 6.725	950 to 1725	4750 / 5000

RBUC-L-C-Nf-WR137G-ER10M-100-200W-ODU-g11

Specifications may be subject to change

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RF Specifications			
Transmit Frequency		Intelsat / Full C / Insat / Palapa C / Extended	
IF Frequency Range		Refer to table pg 1	
Output Power @ Psat		50dBm (100W) / 51.8dBm (150W) / 53dBm (200W)	
Small Signal Gain		70dB min	
Gain Flatness		±2dB over the O/P frequency band	
Gain Variation		±1.5dB over the operating temperature range	
Gain Control		30dB in steps of 0.1dB	
Inter Modulation		-25dBc @ Relative to combine power of two carriers at 3dB total power back off from Rated Output power	
O/P Spurious		According to EN301443	
Phase Noise @ Offset		According to Enternie	
1 KHz		-80dBc/Hz	
10 KHz		-90dBc/Hz	
100 KHz		-100dBc/Hz	
I/P VSWR		1.5:1	
O/P VSWR		1.5:1	
T _V RD		70dBm/4KHz	
Noise Power density Rx BD		142dBm/4KHz	
DC Power Requirement		THEODITI/HIVIE	
Prime Power		90 – 264VAC, 50 – 60Hz	
Power Consumption		600W (Typical for 100W)	
1 Ower Consumption		800W (Typical for 150W)	
		1000W (Typical for 200W)	
Interfaces		100000 (Typical for 20000)	
IF Input Interface		50 Ohms N female	
Output Interface		CPRG 137G	
External Reference Requirement		01101010	
Frequency		10MHz	
Power		-5dBm to +5dBm	
Internal 10MHz Ref		Built-in (auto-detection)	
11/17		-150dBc/Hz	
External reference phase noise	10KHz	-155dBc/Hz	
requirement @ frequency offset	100KHz	-160dBc/Hz	
Monitor & Control	TOOKITZ	-100dB6/112	
Wildlifton & Control		BUC Temperature	
		Status alarm	
Monitor		RF Output Power / RF Input Power	
IVIOLITIOI		RF Output Power / RF Input Power RF Reflected Output Power	
		LED status indicator Adjustable	
Control		RF output mute	
Interfere			
Interface		RS232/RS485 Ethernet (SNMP & HTTP) and WiFi(Optional)	
Tx Redundancy		Built in	

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Environmental				
Operating	-40°C to +60°C			
Temperature				
Humidity	Up to 100% Weather protection sealed to IP65			
Mechanical				
Size	284L x 209W x 164H mm / (11.2 x 7.9 x 6.45 inches)			
Weight	9.0kg / (19.9lbs)			
Color	White Powder Coat			
Compliance Standard				
IEC 609501-2nd	International Safety Standard for Information			
Edition	Technology Equipment			
ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the 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)			