



Block Up Converter-L to C Band

N or F Type Female Connector, 10MHz Ext Reference, 100 Watts, 150 Watts or-200Watts, Indoor / Outdoor Unit



ODU



IDU

Applications Designed for:

SCPC (Single Channel per Carrier)
MCPC (Multi-Channel per Carrier) DAMA
(Demand Assigned Multiple Access) Or
TDMA (Time Division multiple Access)

Order Examples: RBUC-L(950-1525M)-C(5.850-6.425)-Nf-ER10M-100W-IDU-g11

Description: (Block Up Converter, L Band(950-1525MHz) to C(5.850-6.425GHz), N-Type Female Connector, 10MHz External Reference, 100 Watts

Additional Options: **Input** **Output** **N or F Female** **100, 150 or 200 Watts** **IDU or ODU**
See Table Below **See Table Below**

Features

- Available for all C-Band frequencies
- L-Band Interface
- Low cost, compact
- Direct antenna mount
- Easy installation
- Temperature compensation
- High power options
- Redundancy option
- RS 232/485, FSK & SNMP M&C option
- Excellent phase noise characteristics
- Low spurious
- Low power consumption
- Wide input D.C. voltage range

Reliability

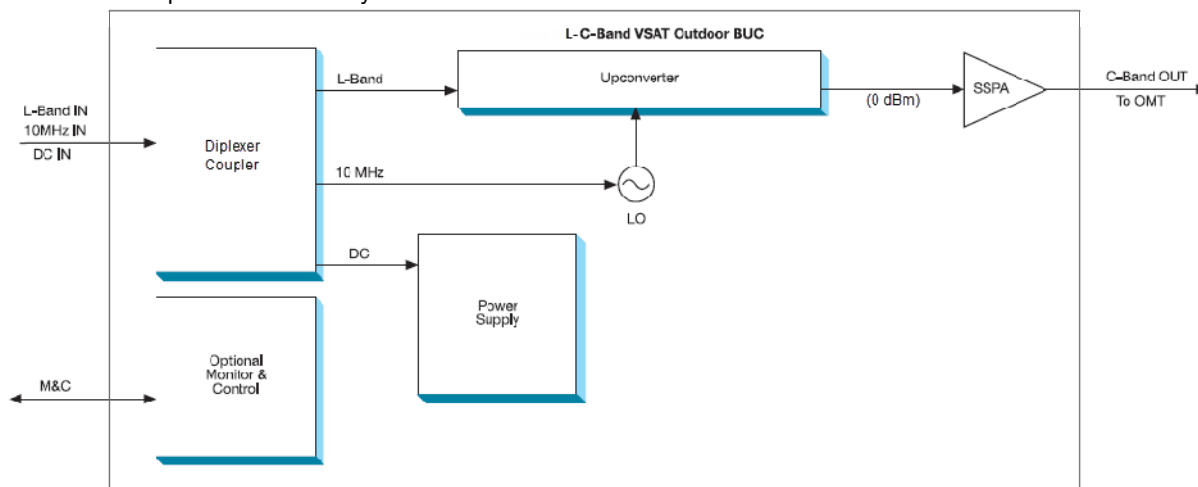
Field proven under harsh environment conditions.
ODU's can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

Monitoring and Control (Optional)

- SSPA On/Off control
- Automatic level control with level stability accuracy better than ± 0.5 dB
- Adjustable gain
- Temperature sensor reading
- LO unlocked alarm
- Input Power Detection
- Output Power Detection
- Ethernet (SNMP+ HTTP)

Quality Assurance

All IDUs go through intensive active electrical stress screening with performance being monitored during screening. In addition, all Indoor units undergo 100% waterproof test equivalent to IP65 to ensure normal operation during tropical, cold and harsh environment.



RBUC-L-C-NF-ER10M-100-200W-ODU-g11

Specifications may be subject to change

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Frequency Range (MHz)			
	Input	Output	LOW LO
Intelsat	950 to 1525	5850 to 6425	4900
Insat	1100 to 1400	6725 to 7025	5625
Measat 3	950 to 1750	5925 to 6725	4975
ST-1/Palapa-C	1150 to 1450	6425 to 6725	5275
Full C	950 to 1825	5850 to 6725	4900

Mechanical	Indoor unit	Outdoor unit
Dimensions	19" Rack, 5RU High	610L X 320W X 253H mm
Weight	40Kg	28Kg
Color	Grey	White Powder coat

Power Supply	
Operating Voltage	+18Vdc to +36Vdc (1mW to 2W) +18Vdc to +60Vdc (5W to 10W)
AC Input Voltage for Booster	220Vac or 110Vac (Factory preset)
DC Input Voltage for BUC 20W Above	+48 Vdc (Optional)
Monitor And Control (optional)	
Interface	RS 232/485, option Ethernet(SNMP+HTTP
SSPA Output Power Detect	Yes
SSPA On/Off Control	Yes

Environmental	Indoor unit	Outdoor unit
Operating Temperature	0°C to + 50°C	-40~+60°C
Relative Humidity	up to 95% (Non Condensing)	up to 100% Weather Protection sealed to IP65
Cooling	Forced Air Cooling	N/A
External Reference		
Frequency	10 MHz	
Phase Noise	External Reference Dependent	
Power	-5 to +5 dBm @ 50Ω	

Compliance Standard	
IEC 60950	International Safety Standard for Information Technology Equipment
ETSI EN 300 673	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) Standard for Very Small Aperture Terminal (VSAT)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electro Magnetic 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)
IEC 60068	Environmental Testing Standard
MIL-STD-810F	Environmental Engineering Considerations and Laboratory Tests

Trasmit			
Power	Output P1dB (dBm) min	Gain (dB)	Power Consumption (Typ)
100W**	50	79 – 83	700VA
150W**	52	81 – 85	1000VA
200W**	53	82 – 86	1200VA

Input Power @P1dB Output	-25 dBm (Typ)
Gain Flatness over Full Bandwidth	4 dB max
Gain stability Over Temp	4 dB max
Gain Control	20dB in step of 0.5dB
Spurious @ P1dB Output	-55 dBc max
Phase Noise @ 100Hz offset	-63 dBc/Hz
@ 1kHz offset	-73 dBc/Hz
@ 10kHz offset	-83 dBc/Hz
@ 100kHz offset	-93 dBc/Hz
Intermodulation Product	
-25 dBc @ Relative to combine power of two carriers at 3dB total power back off from Rated Output power	
Frequency Inversion	Non inverting
Input VSWR	2:0:1 typ
Input Interface	50Ω N-Type Female / F-Type Female (Optional)
Output Interface	50 Ω N-Type Female (1mW) WR137G (2W to 500W)