

Klassic 10W C Band IFL Block-Up Converter

Designed to mount directly to the feedhorn, ideal for data and voice communication operating in different modulation formats for broadband applications in satellite IP networks.

High performance on output power linearity. Robust and highly reliable design to operate under harsh outdoor environment.

Features

- Feed mountable
- Forward power detection
- Monitoring and Control through Serial and Ethernet ports
- Fault identification and alarm generation
- Auto gain control throughout operating temperature
- Wide DC input ranging 18 to 60Vdc
- Wide operating temperature -40°C to +60°C
- IP65 Weatherproof
- RoHS Compliant

Quality Assurance

100% thorough stringent quality checks in addition to well-defined Environmental Stress Screening to ensure operation in harsh outdoor environment conditions. All subjected to seal test for water ingression verification.

Reliability

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



Klassic 10W C Band IFL **Block-Up Converter**

Technical Specifications

RF Specifications

Freq Band	Transmit	IF	LO
Intelsat C	5850 – 6425MHz	950 – 1525MHz	4900MHz
Full C	5850 – 6725MHz	950 – 1825MHz	4900MHz
Output Power	P1dB Plinear		

10W (ALB180) 40.0dBm (10W) 37.0dBm (5W)

Small Signal Gain 63dB min

Gain Flatness ±2dB within band ±1dB over 40MHz

Gain Variation ±2dB within band over operating temperature

Intermodulation -27dBc max @ Plinea According to EN 301 443 Spurious **Phase Noise** -93dBc/Hz max @100KHz offset -83dBc/Hz max @10KHz offset -73dBc/Hz max @1KHz offset **VSWR** 2.0:1 max @input

2.0:1 max @output

AC/DC Power

Prime Power 18 to 60Vdc **Power Consumption** 90VA max

Interface

IF Input N-Type Female 50Ω

F-Type Female 75Ω (option)

WR137 Grooved **RF Output**

External Reference Requirement

Frequency 10MHz

-5dBm to +5dBm Power Level

Phase Noise -160dBc/Hz max @100KHz offset -155dBc/Hz max @10KHz offset

-150dBc/Hz max @1KHz offset

Monitor & Control

Monitor **BUC Temperature**

LO Unlock and Status Alarm

RF Forward and Output Power Detection

Gain adjustable 15dB with 0.5dB step Control

RF Output On/Mute

Communication Port Serial RS232/RS485

SNMP & HTTP (Option)



Environmental

Operating Temperature -40°C to +60°C **Relative Humidity** Up to 100% Weatherproof IP65

Mechanical

Dimension (excluding L248 x W130 x H94mm interface connectors) L9.17" x W6.73" x H3.7"

Weight 3.1Kg / 6.8lbs

Compliance Standard

IEC 609501-2nd Edition

International Safety Standard for Information

Technology Equipment

FTSI FN 301 489-12 Electromagnetic Compatibility and

Spectrum Matters (ERM); Electro Magnetic 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 4GHz and 30GHz

in the Fixed Satellite Service (FSS)

FTSI FN 301 489-1 Electromagnetic Compatibility and Radio

Spectrum Matters (ERM); Electro Magnetic Compatibility Standard for Radio Equipment and

Services

ETSI EN 301 443 Satellite Earth Stations and Systems (SES);

Harmonized EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz frequency bands covering essential requirements under article 3.2 of the

R&TTE directive

FCC Class A Two levels of radiation and conducted emissions

limits for unintentional radiators (FCC Mark)

Certification of products with radio technologies for the Brazilian market based on approval by the authority Agência Nacional

Telecomunicações (Anatel).

The certification is based on national specifications for the testing and certification process and is a condition for market approval in

Brazil.



NOTE: All specifications subject to change without notice B03G12



Compact 10W C Band IFL Block-Up Converter

Standard Part List for Standalone Configuration

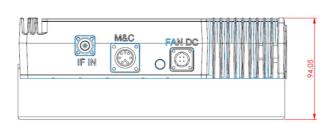
ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	BUC		ALB180xxxA-xx	01	BUC
2	M&C Cable	RS232 / RS485	2502041169	01	C/A M&C 485/ETH 12-8P to DB9 (F) 2M
3	M&C Cable	ETH	2502041166	01	C/A M&C ETH-DB9 (M) to RJ45 2M
4	Converter	RS485	6103480008	01	Converter USB to RS485
5	Mounting Accessory Set			01	Mounting screws including gasket for flange WR137

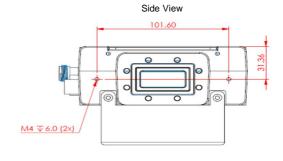
Option Item

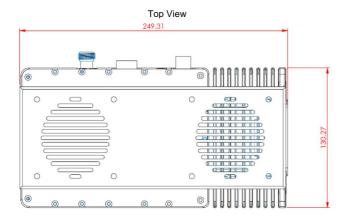
ITEM	PRODUCT NAME	OPTION	PART NUMBER	DESCRIPTION
1	WG Flexible	0.6M	4203490309	Flexible WG C band WR137 CPRG to WR137 CPRF 0.6M
		1.0M	4203490057	Flexible WG C band WR137 CPRG to WR137 CPRF 1M
		1.5M	4203490289G	Flexible WG C band WR137 CPRG to WR137 CPRF 1.5M
2	RF Cable	3M	2502040137	C/A RF N (M) to N (M) 3M
		7M	2502040109	C/A RF N(M) TO N(M) 7M
		10M	2502041952	C/A RF N(M) TO N(M) 10M
3	M&C Cable	Serial / 6M	2502041980	C/A M&C 485/ETH 12-8P to DB9 (F) 6M
		Serial / 50M	2502041722	C/A M&C 485/ETH 12-8P to DB9 (F) 50M

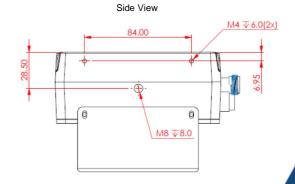
Mounting Diagram









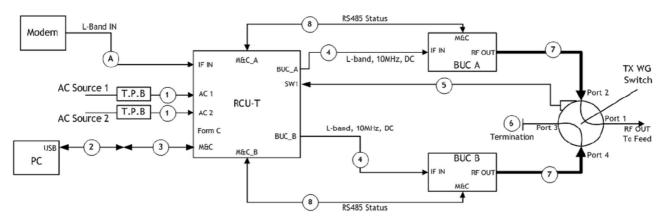


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1:1 Redundancy System Block Diagram



Standard Part List for 1:1 Configuration

ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	Prime Power Input Cable	AC	1001520980	02	Transient Protection Box 12-3S to Unterminated 220Vac 5A 3M
2	Converter	RS485	6103480008	01	Converter USB to RS485
3	Cable M&C	Serial/ETH	2502041169	01	C/A M&C Serial/ETH 12-8P to DB9 (F) 2M
4	Cable RF	3M	2502040137	02	C/A RF N (M) to N (M) 3M
5	Cable Control	3M	2502040155	01	C/A Switch RCU Control 10-6S to 10-6P 3M
6	WG Termination		5701200008	01	Termination WR137 75W CPRF
7	WG Flexible	1.0M	4203490057	02	Flexible WG C band WR137 CPRG to WR137 CPRF 1M
8	Cable Control	2M	2502040561	02	C/A Straight 12-8S to 12-8P 2M
9	WG Switch		5903290003	01	SW WR137 SGL 5.85-8.2G 230VA
10	RCU		AAV6103204-T	01	Redundancy Control Unit
11	BUC		ALB180xxxA-xx	02	C BUC 10W
12	Cable M&C	ETH	2502041166	01	C/A M&C ETH-DB9 (M) to RJ45 2M
13	BUC Mounting Accessory Set			02	Mounting screws including brackets, studs, and gasket for flange WR137
14	RCU Mounting Accessory Set			01	RCU Mounting brackets including screws and studs

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