

Klassic 8W Ku Band IFL Block-Up Converter

Suitable for broadband applications in flyaway and satellite IP networks for both voice and data communication of different modulation mode,

Excellent output linearity and phase noise with full monitor and control (M&C) features. Auto input voltage ranging between 16Vdc to 60Vdc. Designed to operate between -40°C to +60°C under harsh outdoor environment.

Easy installation with redundancy ready features to work in 1+1 redundancy mode.

Features

- Feed mountable
- Monitoring and Control through Serial and Ethernet ports
- Excellent output power linearity and phase noise
- Fault identification and alarm generation
- Auto gain control throughout operating temperature
- Auto input DC ranging 16 to 60Vdc
- Wide operating temperature -40°C to +60°C
- Fanless 8W option available with operating temperature up to +55°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

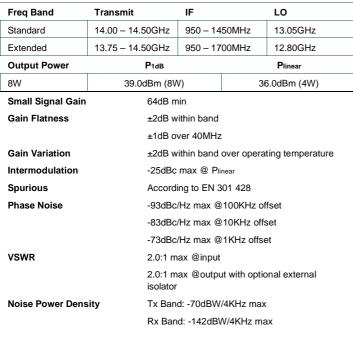
Field proven under harsh environment conditions. Agilis ODUs can withstand temperature ranging from -40°C to +60°C under 100% humidity.



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Technical Specifications

RF Specifications





Monitor & Control

Monitor	BUC Temperature
	Status Alarm with LED Indicator
	LO Unlock Alarm
	RF Input and Forward Power Detection
Control	Gain adjustable 15dB with 0.5dB step
	RF Output On/Mute
Communication Port	Serial RS232/RS485
	Ethernet (SNMP & HTTP)
Transmit Redundancy	Redundancy-Ready (with external controller unit)
Environmental	
Operating Temperature	-40°C to +60°C
Relative Humidity	Up to 100%
Weatherproof	IP65
Mechanical	
Dimension (excluding	L282 x W142 x H98mm
interface connectors)	L11.10" x W5.59" x H3.86"
Weight	4.1Kg / 9.0lbs
Compliance Standard	
IEC 609501-2nd Edition	International Safety Standard for Informatio Technology Equipment
ETSI EN 301 489-12	Electromagnetic Compatibility and Radii Spectrum Matters (ERM); Electro Magneti Compatibility (EMC) Standard for radii equipment and services; Part 12: Specifi conditions for Very Small Aperture Termina Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GH in the Fixed Satellite Service (FSS)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radi Spectrum Matters (ERM); Electro Magneti Compatibility Standard for Radio Equipment an
	Services
ETSI EN 301 428	Services Satellite Earth Stations and Systems (SES) Harmonized EN for Very Small Aperture Termina (VSAT); Transmit-only, transmit/receive of receive-only satellite earth stations operating i the 11/12/14 GHz frequency bands coverin essential requirements under article 3.2 of th R&TTE directive

NOTE: All specifications subject to change without notice B01E12

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AC/DC Power	
Prime Power	

Power Consumption

Interface

IF Input RF Output

F-Type Female 75Ω (option) WR75 Square Grooved

16 to 60Vdc

N-Type Female 50Ω

80VA

External Reference Requirement

Frequency	10MHz	
Power Level	-5dBm to +5dBm	
Phase Noise	-155dBc/Hz max @100KHz offset	ETSI EN 301
	-145dBc/Hz max @10KHz offset	
	-135dBc/Hz max @1KHz offset	

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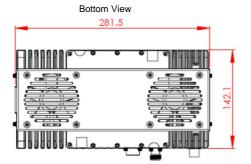
Standard Part List for Standalone Configuration

ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	BUC		ALB128xxx8	01	BUC
2	Cable M&C	RS485/ETH	2502041169	01	C/A M&C 485/ETH 12-8P to DB9 (F) 2M
3	Cable M&C	ETH	2502041166	01	Cable Assembly ETH-DB9 to RJ45 2M
4	Cable M&C	RS485	6103480008	01	Converter USB to RS485
5	Mounting Accessory Set			01	Mounting screws including brackets and gasket for flange WR75

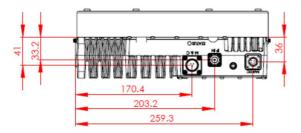
Option Items

ITEM	PRODUCT NAME	OPTION	PART NUMBER	DESCRIPTION
1	WG Flexible	0.6M	4203490010	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 0.6M
		1.0M	4203490049	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 1.0M
		1.5M	4203490014	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 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	Cable M&C	6M	2502041980	C/A M&C 485/ETH 12-8P to DB9 (F) 6M
		50M	2502041722	C/A M&C 485/ETH 12-8P to DB9 (F) 50M

Mounting Diagram





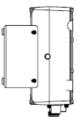


NOTE: Part list and drawing subject to change without notice B01E12





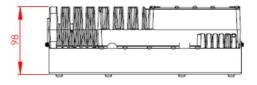
Side View





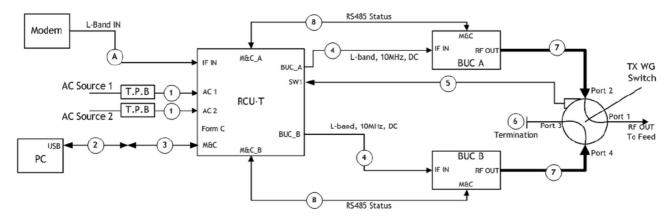
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1:1 Redundancy System Block Diagram



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		4203490015	01	Termination WR75 75W CPRF
7	WG Flexible	1.0M	4203490049	02	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 1.0M
8	Cable Control	2M	2502040561	02	C/A Straight 12-8S to 12-8P 2M
9	WG Switch		5903290009	01	WG Switch Ku Band WR75 Single 230Vac
10	RCU		AAV6103204-T	01	Redundancy Control Unit
11	BUC		ALB128xxx8	02	Ku BUC 8W
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 WR75
14	RCU Mounting Accessory Set			01	RCU Mounting brackets including screws and studs

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