

...designed for perfect signals

Dual BDC (Block Down Converter) for simultaneous Low & High Ku-Band

The Dual BDC covers the full Ku-band frequency range simultaneously on low and high band outputs. The BDC chassis is ideal for installation in various professional applications involving low symbol rate carriers. It comes as standard with an internal low-loss isolator.

The integrated eight-way splitter within the 1RU/19" rack mount chassis allows both the low and high band signal distribution.

Additionally, the unit features BDC current monitoring, RF power monitoring, a rear-side 10MHz external reference signal port and 1:1 redundant dual power supply.

Front side status LED's indicating and monitoring the health status of the unit.

Remote configuration, monitoring and alarming can be done via an RJ45 Ethernet-Interface (WebGUI, SNMP).



BDC FEATURES & BENEFITS:

- ▶ Full Ku-Band coverage
- ▶ Standard Ultra Low Phase Noise meets all profiles of DVB-S2X
- ▶ High P1dB and IP3
- ▶ Standard with Internal Low Loss Isolator
- ▶ Wide operating temperature range
- ▶ Gain 50dB
- ▶ 50Ohm SMA(f) BDC input connector

Chassis FEATURES & BENEFITS

- ▶ Extended L-Band frequency (850 – 2450MHz).
- ▶ Dual eight-ways splitters for both BDC low and high band outputs.
- ▶ RF power monitoring for both BDC low and high band.
- ▶ BDC current monitoring.
- ▶ 10MHz external reference signal input.
- ▶ Splitter 75Ohm F(f) output connectors.
- ▶ 1:1 redundant dual power supply (hot-swappable).
- ▶ Front side status LED's indicating Modules & power supply status.
- ▶ Remote configuration via Ethernet-Interface, (WebGUI/SNMPv2c).

TECHNICAL SPECIFICATIONS

Dimensions:	1RU/19" rack mount, 300mm deep
Power Supply:	85 – 230V, 50/60Hz, 1:1 redundant
Power Consumption:	<10W
Input Frequency Range:	10,7 – 11,7GHz and 11,7 – 12,75GHz
Input/output Connectors:	KU: 50Ohm SMA(f), L-Band: 2 x 8 x 75Ohm F(f)
LO Frequency:	9,75GHz and 10,6GHz
Spurious:	< -60dBm @ 1,7GHz
Frequency Response:	±3dB typ., ±4,0dB max., ±0,4dB max. within 30MHz
Gain:	50dB
Noise Figure:	2 dB / 170 K @ 60dB gain configuration typ.
Phase Noise:	-35 dBc@10Hz, -65dBc@100Hz, -82dBc@1kHz, -94dBc@10kHz, -98dBc@100kHz, -120dBc@ ≥1MHz, typ.
Image Rejection:	40dB min.
Output P1dB:	+5dBm typ.
Output IP3:	+15dBm typ.
LO Leakage:	-60dBm @ Input
MTBF / MTTR:	>400kHrs at 25°C / 24 hours
Operating Temperature:	0° to 45°C
Storage Temperature:	-10° to 70°C
Humidity:	90% non-condensing
RoHS:	Compliant

ORDER INFORMATION

Type	Type No.	Short Description
BDC-Dual-Band-KU-1RU	9001154	1RU 19" Redundant PSU, Dual Band BDC LO 9,75 and 10,6GHz, Freq. Range 10,7-11,7GHz and 11,7-12,75GHz, 2 x L-Band Output 8 x 75Ohm F(f) each, BDC Gain 50dB, Ku-Band Input Connector Type SMA(f), 10MHz Reference extern via SMA(f)