



4-way Single L-band Active Dextra Series Splitter

with dual redundant amplifiers
(OPT-R version), switchable LNB powering,
DC Pass (OPT-D version) & 10MHz Pass

Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution where optimum satellite signal quality is required
- 850-2450 MHz to cover Ka-band and HTS applications

850 - 2450 MHz operating frequency range (KA-band ready).

LNB Powering 13/18V & 22KHz tone

DC Pass on all ports

Signal Monitoring via -20 dB monitor port

Local Monitoring via front panel status LEDs for power, LNB & PSU

10MHz pass on port 1 only

Compact housed in a 1U high chassis

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser with settable alarm thresholds for LNB

Dry contact alarm port for power supply status

Resilience from dual redundant amplifiers (OPT-R) & power supplies





Technical specifications and operating parameters

RF Parameters						
Capacity	4-way					
Frequency Range	850-2450 MHz (Extended L-band)					
Front Panel Monitor	50Ω SMA		-20 dB, 16 dB return loss			
RF Connectors	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Gain	0±1.0 dB Mean across band					
Gain Flatness	Full Band	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Isolation 850-2250MHz	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Isolation 2250-2450MHz	Typical	28 dB	28 dB	28 dB	24 dB	24 dB
	Minimum	24 dB	24 dB	24 dB	22 dB	22 dB
Group Delay Variation	Full Band	2 ns maximum				
	Any 36MHz	1 ns maximum				
Amplification	Single path amplifier			Standard Model		
Options	Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring			Option: OPT-R		
	DC pass port 1 to common port			Option: OPT-D		
	Dual redundant amplifier & DC pass port 1			Option: OPT-RD		
10MHz Insertion Loss	<1 dB		Port 1 to common only			
Noise Figure	50Ω	10 dB typical				
	75Ω	12 dB typical				
Output 1dB GCP	0 dBm					
OIP3	+10 dBm					
OIP2	+30 dBm					
3rd Order Intermodulation Level	-40 dBc		With 2 equi-magnitude -13dBm carriers. Total power -10dBm			
Input RF Power	16 dBm		Absolute maximum			
In Band Spurious	< -80 dBm					

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing
Altitude	10,000 feet AMSL

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	Max. consumption at steady state with max rated LNB current supplied
LNB Power	0/13V/18Vdc, 500mA max via common (RF in) port, over current protected at 800mA typical. 22kHz tone on/off enabled/disabled through comms. Monitored, alarms and status available through comms. Thresholds settable by user through comms.	
PSU	Dual redundant with dual IEC inlets	Diode OR. Not hot swap

System Control	
Monitoring & Remote Control	Redundant amplifiers, LNB current and power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU and LNB supply. Full status and alarms are also available via the Ethernet interface.
Display	Tri colour LEDs to indicate PSU, LNB supply and amplifier status.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 kg
Colour	White 00-E-55 semi-gloss

PRELIMINARY

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

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