



# 4-way Dual Active Dextra Series Extended L-band Splitter

with dual  
redundant amplifiers (OPT-R version)

## Typical applications:

- Satellite operators, VSAT, teleports & broadcasters
- High resilience RF distribution where optimum satellite signal quality is required



**850 - 2450 MHz**  
operating frequency  
range



**LNB Powering**  
0/13V/18Vdc, 500mA  
with 22kHz tone



**Signal Monitoring**  
via -20 dB monitor port



**Local Monitoring**  
via front panel status  
LEDs for power & PSU



**Compact** dual 4-  
way splitter housed in  
a 1U high chassis



**Remote control & monitoring** via RJ45  
Ethernet port with SNMP &  
web browser interface



**Dry contact alarm port**  
for power supply status & LNB  
supply alarms



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



### Technical specifications and operating parameters

RF Parameters					
Capacity		Dual 4-way Splitter			
Front panel monitor		50Ω SMA -20dB, 16dB return loss			
Frequency		850-2450MHz (Extended L-band)			
Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-type	75Ω BNC
Gain Flatness	850-2450 MHz	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36 MHz	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Gain		0 ± 1.0 dB Mean across band			
Group Delay	850-2450 MHz	2 ns maximum			
	Any 36 MHz	1 ns maximum			
Amplification		Single path amplifier (standard model)			
Amplifier Redundancy Option (OPT-R)		Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch over based on amplifier current monitoring.			
Isolation 850-2250MHz	Typical	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB
Isolation 2250-2450MHz	Typical	28 dB	28 dB	24 dB	24 dB
	Minimum	24 dB	24 dB	22 dB	22 dB
Noise Figure	50Ω	10 dB			
	75Ω	12 dB			
1dB Gain Compression Point (output)		0dBm			
OIP3		+10 dBm			
OIP2		+30 dBm			
3rd order intermodulation level		-40 dBc With 2 equi-magnitude -13 dBm carriers. Total power -10 dBm.			
In Band Spurious		<-80 dBm			
Input RF Power		16 dBm Absolute Maximum			

Power		
AC Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	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 PSUs with dual IEC inlets.	Diode OR
Hot-swap PSU	No	

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.

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 Above Mean Sea Level (AMSL)

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3 Kg
Colour	White 00-E-55 semi-gloss

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.