



4-way Single L-Band Active Dextra Series Combiner

with 10 MHz pass to port 1, dual redundant amplifiers (OPT-R) & DC pass to port 1 (OPT-D)

Typical applications:

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

850 - 2450 MHz operating frequency range

10MHz Pass on port 1 (as standard)

Signal Monitoring via -20 dB monitor port

Local control & monitoring via LED display for amplifier and PSU status

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

L Band Combiner
www.etlsystems.com

OUTPUT - 10 MHz -

1 **2** **3** **4**

ETHERNET

ALARMS

AC1 IN **AC2 IN**

100-240 VAC
50/60Hz 0.8A

Local monitoring via LEDs to indicate PSU & amplifier status

Resilience from dual redundant power supplies (as standard) & 1:1 redundant amplifiers (OPT-R)

Dry contact alarm port for power supply status

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





Technical specifications and operating parameters

RF Parameters						
Capacity	4-way Combiner					
Frequency	850 to 2450 MHz					
Front Panel Monitor	50Ω SMA					
RF Connectors & Impedances	50Ω BNC	50Ω SMA	50Ω N-Type	75Ω F-Type	75Ω BNC	
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	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Group Delay Variation	Full band	2 ns maximum				
	Any 36MHz	1 ns maximum				
Amplification	Single path amplifier (standard model)					
Options	OPT-R	Dual redundant amplifier Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.				
	OPT-D	DC Pass port 1 to common port				
	OPT-RD	Dual redundant amplifier and DC pass port 1				
10MHz Insertion Loss	<1dB		Port 1 to common only			
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
Noise Figure	24 dB					
Output 1dB GCP	+10 dBm					
OIP3	+20 dBm					
OIP2	+30 dBm					
3 rd Order intermodulation level	-40 dBc		With 2 equi-magnitude -13dBm carriers. Total power -10dBm.			
Input RF Power	16 dBm		Absolute maximum			
In Band Spurious	< -80dBm					

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing. Relative Humidity.
Altitude	10,000 feet AMSL (above mean sea level)

Power		
PSU Power	85-264Vac 50/60Hz	Fused 2A
LNB Power	None	
PSU Redundancy	Dual redundant with dual IEC inlets	Diode OR. Not hot-swap
AC Consumption	<20 W	At steady state

System Control & Alarms	
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU supply. Full status and alarms are also available via the Ethernet interface.
Remote Control and Monitoring	Via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access SNMP, and ETL Proprietary TCP Protocol
Display	Tri coloured LEDs to indicate PSU and amplifier status.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 kg
Colour	RAL9003- White (Semi-Matte)

Preliminary Specifications

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.