



8-way Dual L-Band Active Dextra Series Combiner

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

Typical applications:

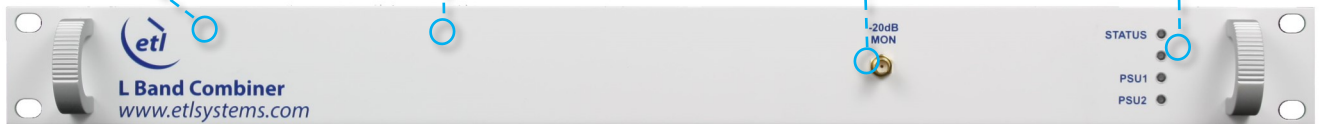
- Satellite operators, VSAT, teleports and broadcasters.
- IPTV and DTH headend content distribution.
- High resilience RF distribution where optimum satellite signal quality is required.
- Redundancy applications for remote satellite teleports.
- SNG and Outside broadcast trucks.

Compact dual 8-way combiner housed in a 1U high chassis

10MHz Pass on port 1 & DC Pass optional (OPT-D)

Local Monitoring via front panel status LEDs for amplifier status & PSU

Signal Monitoring via -20 dB monitor port



850 - 2450 MHz operating frequency range

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

Dry contact alarm port for power supply status

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





Technical specifications and operating parameters

RF Parameters					
Capacity	Dual 8 way Combiner				
Frequency	850 to 2450MHz (Extended L-band)				
Front Panel Monitor	50Ω SMA				
Connector & Impedances	50Ω BNC	50Ω SMA	75Ω F-Type	75Ω BNC	
Gain	0±1.0 dB Mean across band				
Gain Flatness	Full band	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB
	Minimum	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	<1 dB		Port 1 to common only		
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	24 dB				
Output 1dB GCP	+10 dBm				
OIP3	+20 dBm				
OIP2	+30 dBm				
3 rd Order intermodulation level	-40 dBc	With 2 equi-magnitude -13 dBm carriers. Total power -10 dBm.			
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. Relative Humidity.
Altitude	10,000 feet AMSL (above mean sea level)

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
BUC Power	None	
PSU Redundancy	Dual redundant with dual IEC	Diode OR. Not hot-swap
AC Consumption	<20W	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	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 on front panel.

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

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.