

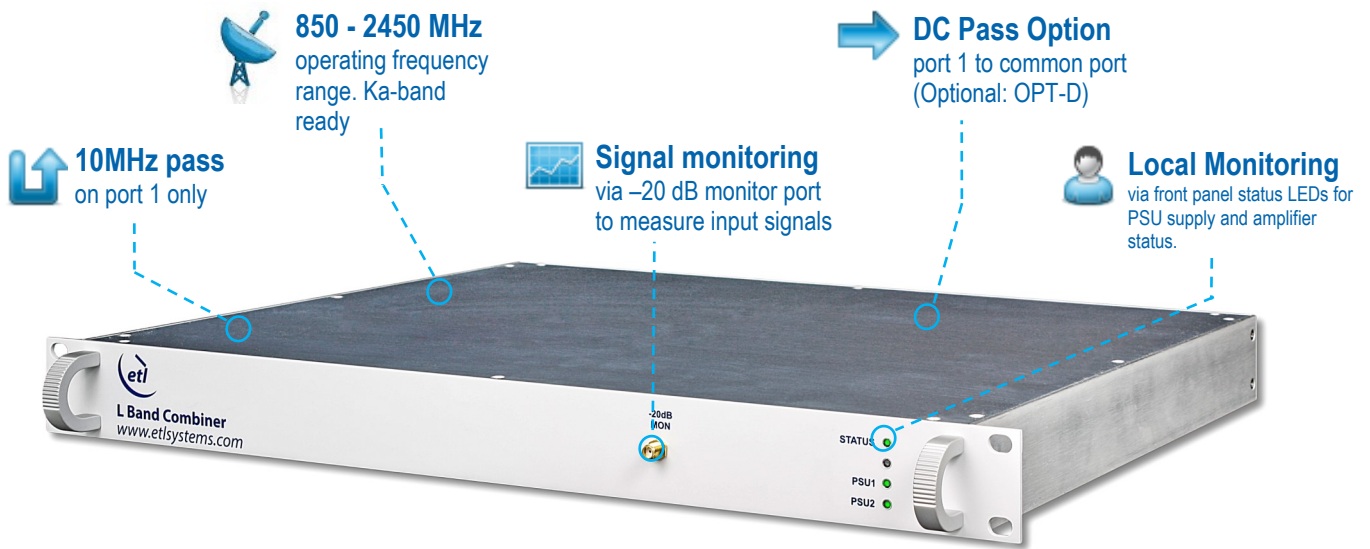


# 8-way Single L-band Active Dextra Series Combiner

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

**Typical applications:**

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





**Technical specifications and operating parameters**

RF Parameters						
Capacity	8-way Combiner					
Frequency Range	850-2450 MHz (Extended L-band)					
Front Panel Monitor	50Ω SMA		-20 dB, 16 dB return loss			
RF Connectors	50Ω BNC	50Ω SMA	50Ω N-type	75Ω F-type	75Ω BNC	
Gain	0 ± 1.0 dB					
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
Isolation 850-2250 MHz	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB	24 dB
Isolation 2250-2450 MHz	Typical	28 dB	28 dB	28 dB	24 dB	24 dB
	Minimum	24 dB	24 dB	24 dB	22 dB	22 dB
^ Minimum between and two input ports ^						
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	<1.5 dB			Port 1 to common only		
10MHz Rejection	>50 dB			Ports 2 to 8		
Noise Figure	24 dB					
Output 1dB GCP	+10 dBm					
OIP3	+20 dBm					
OIP2	+30 dBm					
3rd Order intermodulation level	-40 dBc			With 2 equi-magnitude -13dBm carriers. Total power -10 dBm		
Input RF Power	16 dBm (10MHz max +10 dBm)			Absolute maximum		
In band Spurious	<-80 dBm			Non Signal Related		
	<60 dBc			Signal Related Spurs		

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
PSU	Dual redundant PSU's with dual IEC inlets	Diode OR. Not hot-swap
AC Consumption	<20 W	At steady state

System Control	
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
Display	Tri coloured LED's to indicate PSU supply and amplifier status.
Communications	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL Proprietary TCP protocol.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.05 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.

