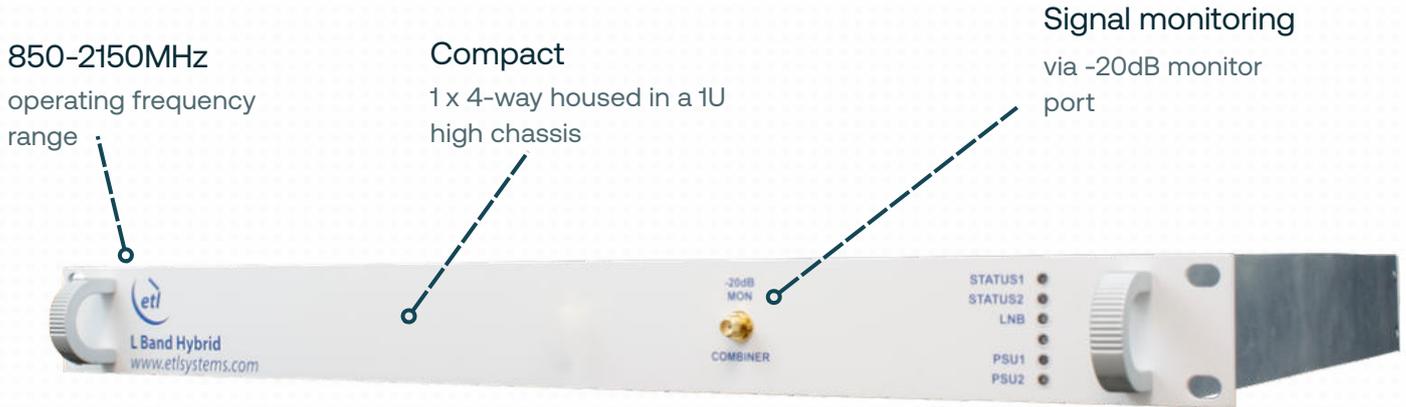


# 4-way Single L-Band Active Combiner

with dual redundant amplifiers (OPT-R version) & -20 dB monitoring port



Local Monitoring via from panel status LEDs for amplifier & PSU

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

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

Dry contact alarm port for amplifier & power supply status

RF Parameters						
Capacity	Dual 4-way combiner					
Frequency Range	850 to 2450MHz					
Front Panel Monitor	50Ω SMA -20dB, 16dB return loss					
Rf Connector & 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	21dB	21dB	21dB	21dB	21dB
	Minimum	16dB	16dB	16dB	16db	16dB
Output Return	Typical	20dB	20dB	20dB	20dB	20dB
	Minimum	16dB	16dB	16dB	16dB	16dB
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.				
Isolation	25dB minimum between any two output ports					
Noise Figure	50Ω	18dB				
	75Ω	17dB				
Output 1dB GCP	+12dBm					
OIP3	+10 dBm					
OIP2	+30 dBm					
3 <sup>rd</sup> 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		
Temperature	0 to 50°C Operating	-20°C to +75°C Storage
Location	Indoor use only	
Humidity	85% non-condensing. Relative Humidity.	
Altitude	10,000 feet AMSL	
Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
PSU	Dual redundant with dual IEC	Diode OR. Not hot-swap
AC Consumption	<10W	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	Indication LEDs with a -20dB monitor port. PSU and Summary dry contact alarms on front panel. 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)	



Physical		
Weight	2kg	
Dimensions	1U high x 200mm deep x 19" wide	
Colour	White 00-E-55 semi gloss	
Environmental		
Temperature	0 to 50°C Operating	-20°C to +75°C Storage
Location	Indoor use only	
Humidity	85% non-condensing. Relative Humidity.	
Altitude	10,000 feet AMSL	
Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
PSU	Dual redundant with dual IEC	Diode OR. Not hot-swap
AC Consumption	<15W	At steady state
System Control & Alarms		
Display	Tri colour LEDs to indicate PSU & amplifier status on front panel.	
Remote Control	Via RJ45 Ethernet port, TCP/IP, SNMP & Web browser interface.	
Alarm	Dry contact, change-over via 9 way D type. Available alarms are: PSUs & summary alarm. Full status & alarms are also available via the Ethernet interface.	

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.