



# 4-way Single L-Band Active Combiner

with 10 MHz and DC pass on all ports

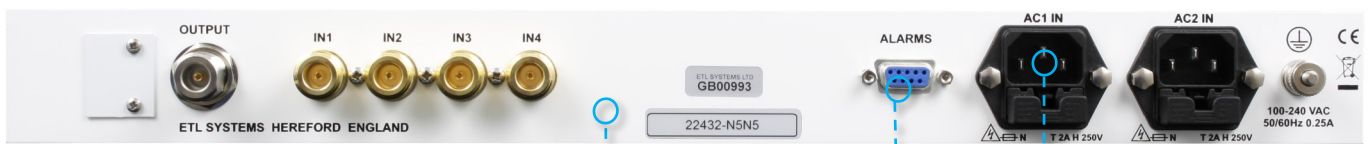
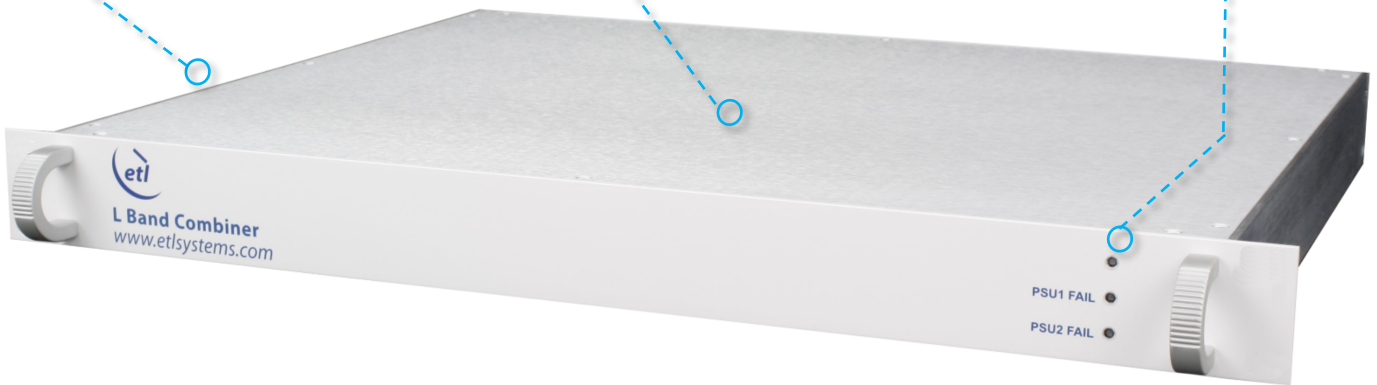
**Typical applications:**

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

**+** 10 MHz & DC Pass to all ports


 850 - 2150 MHz operating frequency range

 **Monitoring** via front panel LEDs to indicate power supply status



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

 **Dry contact alarm port** for power supply status

 **Resilience** from dual redundant power supplies





**Technical specifications and operating parameters**

RF Parameters						
Capacity	4-way Combiner					
Frequency	850 to 2150 MHz					
Front Panel Monitor	50Ω SMA					
RF Connectors & Impedances	50Ω N-Type	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-Type	
Gain	0±0.8 dB	0±0.8 dB	0±0.8 dB	0±1.4 dB	0±1.4 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	22 dB	22 dB	18 dB	15 dB	12 dB
	Minimum	14 dB	14 dB	12 dB	8 dB	8 dB
Output Return Loss	Typical	20 dB	20 dB	18 dB	15 dB	15 dB
	Minimum	12 dB	12 dB	12 dB	8 dB	8 dB
Group Delay Variation	Full band	2 ns maximum				
	Any 36MHz	1 ns maximum				
Isolation	Typical	28 dB	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	23 dB	22 dB	22 dB
Noise Figure	17 dB					
Output 1dB GCP	Typical	+ 5 dBm				
	Minimum	0 dBm				
OIP3	+15 dBm					
10 MHz Insertion Loss	TBC					

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	<10 W	

System Control & Alarms	
Alarms	Dry contact, change-over via 9-way D-type. Available alarms are: PSU1 & PSU2 status.
Display	Tri coloured LEDs to indicate PSU status & power applied on front panel.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.1 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.