

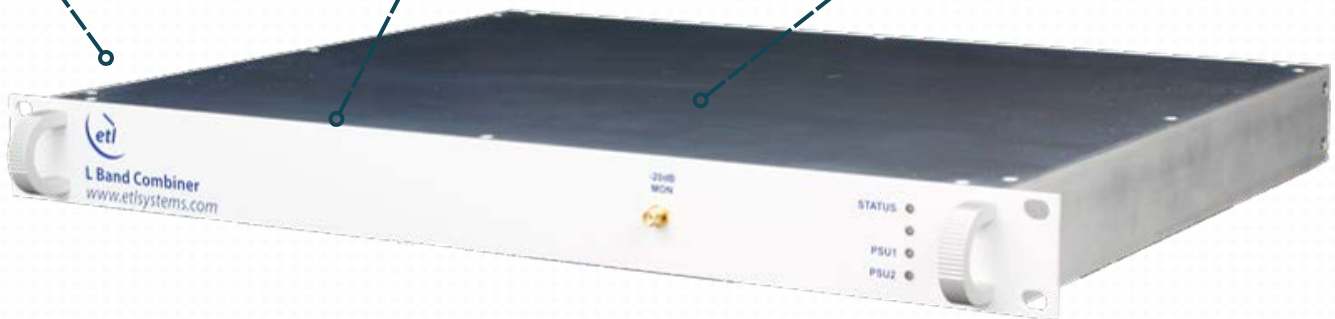
4-way Single L-Band Active Combiner

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

850-2150MHz
operating frequency
range

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

Signal monitoring
via -20dB monitor 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		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		+10dBm				
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		< -80 dBm				

Enviromental		
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)	