




4-way Single L-Band Active Combiner

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

Typical applications:

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


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

 **850 - 2150 MHz** operating frequency range

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

 **Signal monitoring** via -20 dB monitor port



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

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

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





Technical specifications and operating parameters

RF Parameters						
Capacity	4-way Combiner					
Front panel monitor	50Ω SMA	-20dB, 16dB return loss				
Frequency	850-2450MHz					
Connector & impedances	50Ω BNC	50Ω SMA	50Ω N-type	75Ω F-type	75Ω BNC	
Gain Flatness	850-2450 MHz	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36 MHz	±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
Gain	0 ± 1.0 dB		Mean across band			
Group Delay	850-2450 MHz	2 ns maximum				
	Any 36 MHz	1 ns maximum				
Amplifier Redundancy (Option OPT-R)	Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch over based on amplifier current monitoring.					
Isolation	25 dB	Min. Between any two output ports				
Noise figure	50Ω	18 dB				
	75Ω	17 dB				
Output 1dB GCP	+12 dBm					
OIP3	+10 dBm					
OIP2	+30 dBm					
3rd order intermodulation level	-40 dBc	With 2 equi-magnitude -13dBm carriers. Total power -10dBm.				
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
LNB Power	None	
PSU Redundancy	Dual redundant with dual IEC inlets.	Diode OR. Not hot-swap.
AC Consumption	<10 W	

System Control & Alarms	
Monitoring & Remote Control	Redundant amplifiers and power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol
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)

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.