

16-Way Single L-Band Active Dextra Series Combiner

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

850-2450MHz

operating frequency range

Local control & monitoring

display for amplifier and PSU Status



Signal Monitoring

via -20dB monitor port

Compact

16-way combiner housed in a 1U high chassis



Dry contact alarm port for power supply status

Resilience

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

Remote control & monitoring

via RJ45 Ethernet port with SNMP & web browser interface

RF Parameters					
Capacity		16-way combiner			
Frequency Range		850 to 2450MHz			
Front Panel Monitor		50Ω SMA		-20dB, 16dB return loss	
Rf Connector & impedances		50Ω BNC	50Ω SMA	75Ω F-Type	75Ω BNC
Gain		0±1.0 dB Mean across band			
Gain Flatness	Full band	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.4 dB	±0.4 dB
Input Return Loss	Typical	21dB	21dB	21dB	21dB
	Minimum	16db	16dB	16db	16dB
Output Return	Typical	20dB	20dB	20dB	20dB
	Minimum	16dB	16dB	16dB	16dB
Group Delay Variation	Full Band	2 ns Maximum			
	Any 36MHz	1 ns Maximum			
Amplification		Single path amplifier (standard model)			
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 850-2250MHz	Typical	28db	28dB	28dB	28dB
	Minimum	24dB	24dB	23dB	23dB
Isolation 2250-2450MHz	Typical	28db	28dB	24dB	24dB
	Minimum	24dB	24dB	22dB	22dB
Noise Figure		25dB			
Output 1dB GCP		+10dBm			
OIP3		+20 dBm			
OIP2		+30dBm			
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			

Physical		
Weight	3.05Kg	
Dimensions	1U high x 350mm deep x 19" wide	
Colour	White 00-E-55 semi-gloss	
Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
PSU	Dual redundant with dual IEC inlets.	Diode OR. Not hot-swap
AC Consumption	<20W	At steady state
System Control & Alarm		
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	Via 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.	

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.