

# 4-way Dual L-band Active Dextra Series Combiner

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

850-2450MHz  
operating frequency  
range

Compact  
d2 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)

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	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	±0.3 dB	±0.3 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)			
Options	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	24dB	24dB
Isolation 2250-2450MHz	Typical	28dB	28dB	24dB	24dB
	Minimum	24dB	24dB	22dB	22dB
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	<20W	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.	
Communication	RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, and ETL Proprietary TCP Protocol	
Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	3.05 kg	
Colour	White 00-E-55 semi-gloss	



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.