

# 8-way Dual L-Band Active Dextra Series Combiner

with 10MHz pass to port 1, dual redundant amplifiers (OPT-R) & DC pass to port 1 (OPT-D)

850-2450MHz  
operating frequency  
range

10MHz Pass  
on port 1 & DC Pass  
optional (OPT-D)

Local Monitoring  
via front panel status LEDs for  
amplifier status & PSU



Signal Monitoring  
via -20dB monitor port

Compact  
dual 8-way combiner  
housed in a 1U high chassis



Dry contact alarm port  
for power supply status

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

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

RF Parameters					
Capacity		Dual 8 way combiner			
Frequency Range		850 to 2450MHz (Extended L-band)			
Front Panel Monito		50Ω SMA			
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.			
	OPT-D	DC Pass port 1 to common port			
	OPT-RD	Dual redundant amplifier and DC pass port 1			
10MHz Insertion Loss		<1dB	Port 1 to common only		
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		24dB			
Output 1dB GCP		+10dBm			
OIP3		+20 dBm			
OIP2		+30dBm			
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			
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	RAL9003- White (Semi-Matte)	
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.