

4-way Single 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

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

Signal monitoring
via -20dB monitor
port



10MHz Pass
on port 1 (as
standard)



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) &
power supplies

Dry contact alarm
port
for amplifier & power
supply status

RF Parameters					
Capacity		Single 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.			
		DC Pass port 1 to common port			
		Dual redundant amplifier and DC pass port 1			
10MHz Insertion Loss		<1 dB 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	Typical	24dB			
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	<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	RAL9003 - White (Semi-Matte)	