

# 4-way Dual IF Active Dextra Series Combiner

with dual redundant amplifiers (OPT-R version)



RF Parameters					
Capacity		Dual 4-way combiner			
Frequency Range		50 to 1000 MHz (IF)			
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)			
Isolation at 70 MHz	Typical	30dB	30dB	30dB	30dB
	Minimum	20dB	20dB	20dB	20dB
Noise Figure	Typical	Typical 25dB		Maximum 27dB	
Output 1dB GCP		+10dBm			
OIP3		+20 dBm			
OIP2		+30 dBm			
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		<15W		At steady state	
System Control & Alarms					
Local Control		Via Front Panel LCD			
Remote Control		Via RJ45 Ethernet port, TCP/IP, SNMP & Web browser interface.			
Monitoring	Local	Indication LEDs with an SMA monitor port (on front panel). PSU and Summary dry contact alarms.			
	Remote	Alarms: Dry contact, change-over via 9-way D-type. Full status and alarms are also available via the Ethernet interface.			

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Amplification		Single path amplifier (standard model)			
Isolation at 70 MHz	Typical	30dB	30dB	30dB	30dB
	Minimum	20dB	20dB	20dB	20dB
Isolation at 1000 MHz	Typical	21db	21dB	21db	21dB
	Minimum	16dB	16dB	16dB	16dB
Noise Figure	Typical	20dB			
Output 1dB GCP		+10dBm			
OIP3		+20 dBm			
OIP2		+30 dBm			
3rd Order Intermodulation Level		-40 dBc With 2 equi-magnitude – 13dBm carriers. Total power—10dBm			
Input RF Power		20dBm		Absolute maximum	
In Band Spurious		< -80 dBm			

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.