



4-way Dual L-band Active Dextra Series Combiner

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

Typical applications:

- Satellite operators, VSAT, teleports, and broadcasters
- High resilience RF distribution where optimum satellite signal quality is required
- Teleports with limited rack space



DEXTRA



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

Dry contact alarm port & serial communications for amplifier & power supply status

Reliability from dual redundant power supplies





Technical specifications and operating parameters

RF Parameters					
Capacity	Dual 4 way Combiner				
Front Panel Monitor	50Ω SMA	-20 dB, 16 dB return loss			
Frequency Range	850-2450 MHz (Extended L-band)				
Connector & impedances	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
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	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB
Gain	0 ±1.0 dB	Mean across band			
Isolation 850-2250MHz	Typical	28 dB	28 dB	28 dB	28 dB
	Minimum	24 dB	24 dB	24 dB	24 dB
Isolation 2250-2450MHz	Typical	28 dB	28 dB	24 dB	24 dB
	Minimum	24 dB	24 dB	22 dB	22 dB
Group Delay	Full band	2 ns maximum			
	Any 36MHz	1 ns maximum			
Amplification	Single path amplifier		Standard Model		
Amplifier option	Dual redundant amplifier. Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.			Option: OPT-R	
Noise Figure	50Ω	18 dB			
	75Ω	17 dB			
Output 1dB GCP	+12 dBm				
OIP3	+10 dBm				
OIP2	+30 dBm				
3rd Order intermodulation level	-40 dBc	With 2 equi-magnitude -13 dBm carriers. Total power -10 dBm.			
Input RF Power	16 dBm	Absolute maximum			
In Band Spurious	<-80 dBm				

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing
Altitude	10,000 above mean sea level

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<20W	Max. consumption at steady state
PSU Redundancy	Dual Redundant PSUs with dual IEC inlets.	Diode OR. Not hot swap.
LNB Power	None	
PSU	Dual redundant	Either PSU is rated to power the matrix. Dual mains inlet
Hot-swap PSU	No	
RF Monitoring	Via -20 dB monitor port on front panel	

System Control	
BUC Power	None
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.
Display	Tri colour LEDs to indicate PSU supply and amplifier status. Front panel.
Monitoring & Remote Control	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, 19" rack mountable
Weight	3.05 kg
Colour	White 00-E-55 semi-gloss

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.

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