

# 10MHz Distribution Amplifier - 16 port

with dual redundant amplifiers (OPT-R), variable gain & Ethernet remote control & monitoring

The Dextra series 10MHz distribution amplifier has been designed for high resilience RF distribution, and optimum satellite signal quality. It benefits from excellent RF performance and compact form factor as well as advanced functionality.



RF Parameters				
Capacity		16-way		
Frequency		5-20MHz		
Connectors and Impedances		50Ω BNC	50Ω SMA	75Ω F-Type 75Ω BNC
Gain		0-10 ±1.0 dB		
Gain Flatness	Full Band	±0.8 dB	±0.8 dB	±1.0 dB ±1.0 dB
Input Return Loss	Typical	20dB		
	Minimum	16dB		
Output Return Loss	Typical	21dB		
	Minimum	16dB		
Group Delay		7 ns maximum mean across band		
Amplification		Single path amplifier (standard model)		
Amplifier Options	Option: OPT-R	Dual redundant amplifier Selectable hot or cold standby, 1:1 redundancy with auto switch-over based on amplifier current monitoring.		
Isolation		26dB		
Noise Figure		13 dB maximum at maximum gain		
Output 1dB GCP		-40 dBc With 2 equi-magnitude -13 dBm carriers. Total power -10 dBm.		
In band spurious		< -80 dBm		
Input RF Power		16 dBm Absolute maximum		
Front panel monitor		50Ω SMA -20 dB, 14 dB return loss		

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.

System Control	
Display	Front panel tri colour LEDs to indicate PSU and amplifier status
Remote Control & Monitoring	Redundant amplifiers & power supplies monitored via RJ45 port with 10baseT/100baseTX Ethernet offering web browser access, SNMP and ETL proprietary TCP protocol
Alarms	Dry contact, change-over via 9-way D-type. Full status and alarms are also available via the Ethernet interface. Available alarms are PSU and summary.
Power	
PSU	Dual redundant PSUs Dual IEC inlet
AC Consumption	<20W at steady state
AC Power	85-264Vac 50-60Hz Fused 2A
Input RF Power	16 dBm Absolute maximum
Physical & Environmental	
Dimensions	1U high x 350mm deep x 19" wide
Weight/Colour	3.05 Kg 00-E-55 White (semi-gloss)
Temperature	Operating: 0 to 50°C / Storage: -20°C to +75°C
Location/Humidity	Indoor use only — 85% non-condensing
Altitude	10,000 feet AMSL (Above Mean Sea Level)

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