

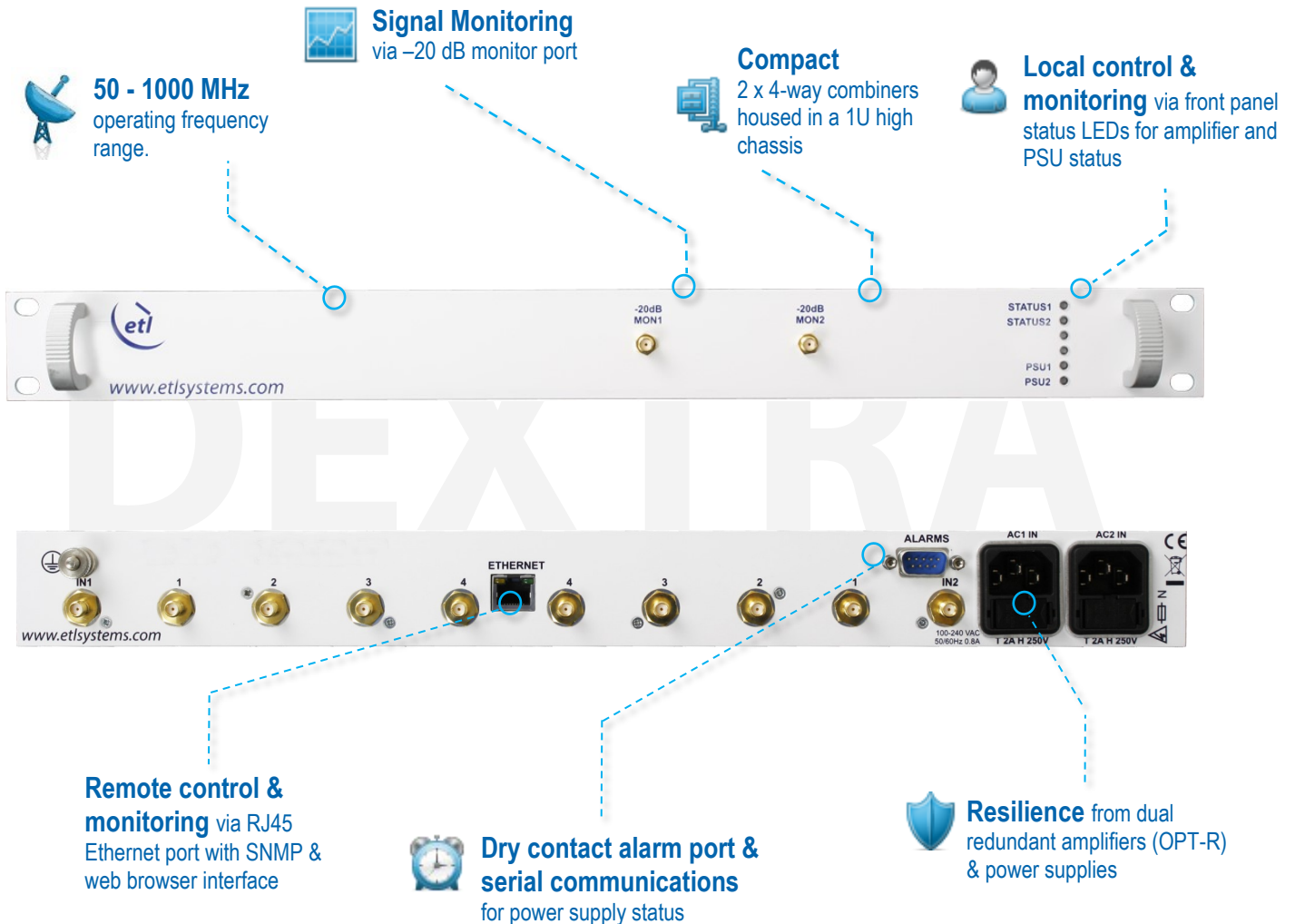


4-way Dual IF Active Dextra Series Combiner

with dual redundant amplifiers
(OPT-R version)

Typical applications:

- Satellite operators, VSAT, teleports & broadcasters.
- IPTV and DTH headend content distribution.
- High resilience RF distribution where optimum satellite signal quality is required.
- Redundancy applications for remote satellite teleports.
- SNG & Outside Broadcast Trucks





Technical specifications and operating parameters

RF Parameters						
Capacity	Dual 4-way Combiner					
Front Panel Monitor	50Ω SMA			-20dB, 16dB return loss		
Frequency Range	50 to 1000 MHz					
RF Connectors & Impedances	50Ω SMA	50Ω N-type	50Ω BNC	75Ω BNC	75Ω F-type	
Gain (dB)	0±1.0					
Gain Flatness	Full band	±0.8 dB	±0.8 dB	±0.8 dB	±1.0 dB	±1.0 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.3 dB	±0.3 dB
Input Return Loss	Typical	21 dB	21 dB	21 dB	21 dB	21 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Output Return Loss	Typical	20 dB	20 dB	20 dB	20 dB	20 dB
	Minimum	16 dB	16 dB	16 dB	16 dB	16 dB
Group Delay Variation	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		
Isolation at 70 MHz	Typical	30 dB	30 dB	30 dB	30 dB	30 dB
	Minimum	20 dB	20 dB	20 dB	20 dB	20 dB
Isolation at 1000 MHz	Typical	21 dB				
	Minimum	16 dB				
Noise Figure	24 dB typ.					
	26 dB max.					
Output 1dB GCP	+10 dBm					
LNB Power	N/A					
OIP3	+20 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 feet AMSL (above mean sea level)

Power & Alarms		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	<15W	
BUC Power	None	
PSU Redundancy	Dual Redundant PSUs with dual IEC inlets.	Diode OR. Not hot-swap

System Control & Alarms	
Remote Control	Via RJ45 Ethernet port with 10baseT/100baseTX Ethernet offering web browser access, SNMP, & ETL Proprietary TCP protocol.
Display	Tri colour LEDs to indicate PSU & amplifier status on front panel.
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.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3.1 kg
Colour	RAL9003—White (semi-matte)

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.

