



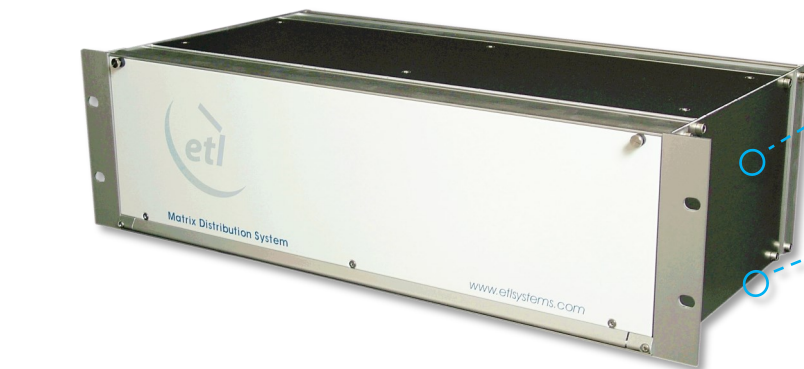
32 x 2-way Splitter Shelf

for Matrix Systems

The unit is designed to link ETL's range of matrices to make bigger matrix systems, while saving rack space and offering excellent RF performance.

Typical applications:

- Linking RF Matrices in expanding satellite teleports.
- Can be used for high density RF distribution chassis where rack space is limited
- As a replacement for non hot-swap passive systems to improve system design.



Fixed gain & Fixed slope factory set to balance input signals



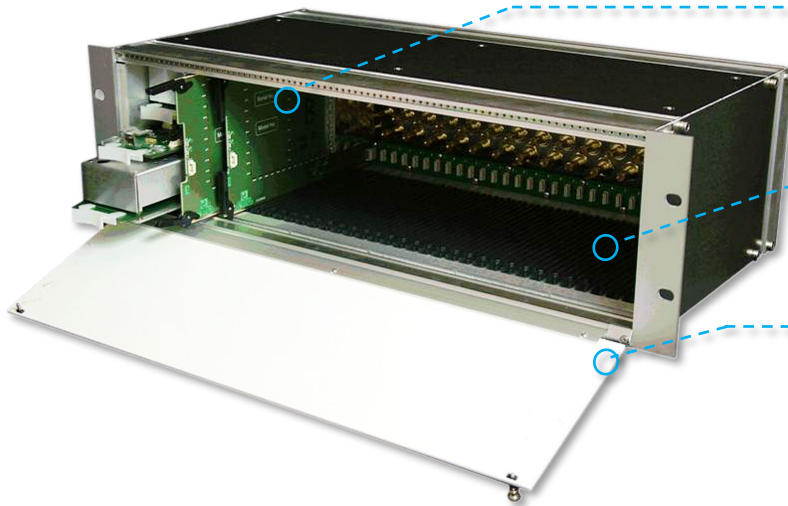
Compact
32 2-way splitter modules housed in a 3U high, 19", rack mountable chassis



Resilience from hot swap splitter modules, hot swap dual redundant power supplies and a hot swap CPU



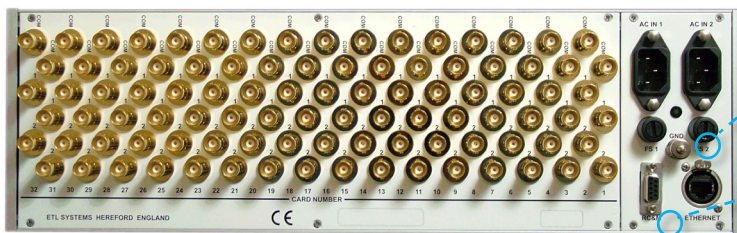
Local monitoring via status LEDs on individual modules



850 - 2150 MHz operating frequency range.



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



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





Technical specifications and operating parameters

RF Parameters					
22302 Module slots used	Each splitter takes 1 slot. 32 slots available in chassis.				
Capacity	2-way splitter				
Frequency Range	850-2150 MHz (L-band)				
Gain	x± 1dB		x=0 to 6 dB. Nominal at 2150 MHz		
Slope	y dB positive slope		y=0 to +6 dB. Typical slope across 850-2150 MHz.		
RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Flatness	850-2150MHz	±0.75 dB	±1.0 dB	±1.8 dB	±2.0 dB
	Any 36MHz	±0.45 dB	±0.70 dB	±1.2 dB	±1.4 dB
Input Return Loss	Typical	16 dB	14 dB	12 dB	10 dB
	Minimum	12 dB	12 dB	10 dB	8 dB
Output Return Loss	Typical	16 dB	14 dB	12 dB	10 dB
	Minimum	12 dB	12 dB	10 dB	8 dB
Linearity (Any gain setting)	1dB GCP	3 dBm typical			
	OIP3	+13 dBm		3rd order intercept point	
	OIP2	+20 dBm		2nd order intercept point	
Isolation	Card to Card	70 dB	80 dB typical		
	O/P - O/P	>20 dB	25 dB typical		
Noise Figure	7 dB		Typical		
1dB GCP	+3 dB		Minimum		
Input RF Power	+ 16 dBm		Absolute maximum		

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	20 to 90% non-condensing

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A, Dual IEC
AC Consumption	<30 W	Fully populated with DIV24 cards
Power Consumption	475 mW per card	
LNB Power	None	
PSU	Dual redundant	Diode OR
Hot-swap PSU	Yes	
RF Monitoring	None	

System Control		
Local Control	Via Front Panel LCD and push buttons	
Remote Control	Via RS232/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.	
Alarms	LED via CPU in chassis	Also amplifier status monitoring via HMI when used in a matrix switch system.

Physical	
Dimensions	3U high x 250mm deep x 19" wide
Weight	<10 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.

