



32x2-way Active IF Splitter Shelf with preset gain and slope compensation


This unit is designed to link ETL's range of matrix/routers, to make larger matrix systems.

Typical applications:

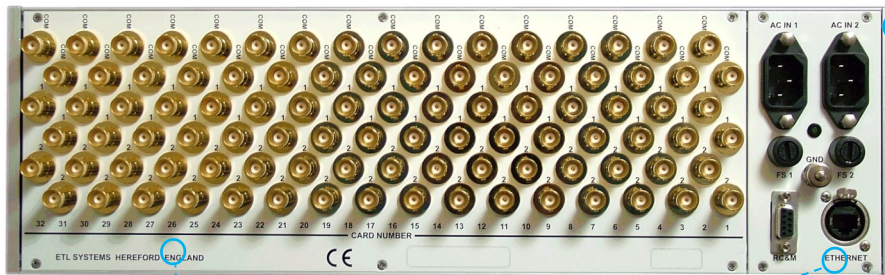
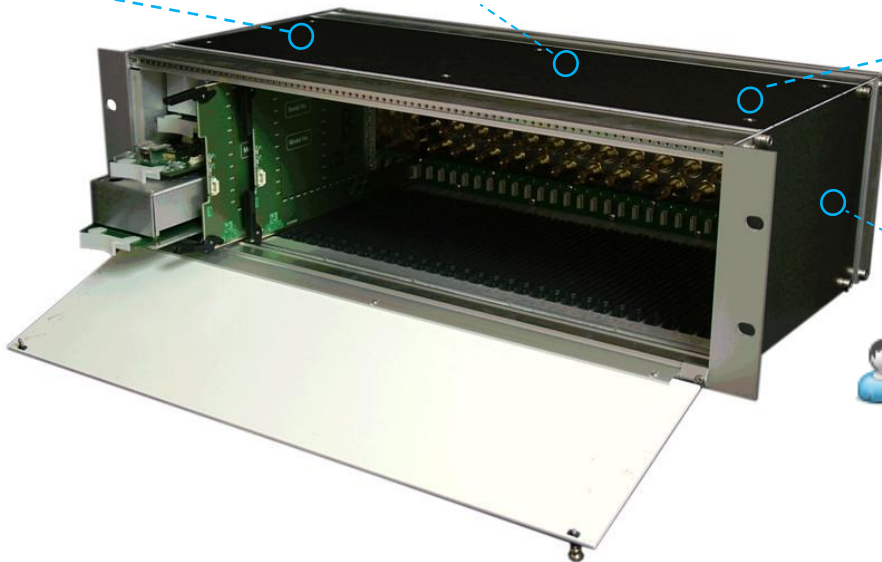
- Linking RF matrices in expanding satellite teleports.
- Can be used for a high density RF distribution chassis where rack space is limited.
- As a replacement for non hot-swap passive systems to improve system design.

 **Preset gain & slope** to compensate for system losses.

 **50 - 200 MHz** operating frequency range.


 **Resilience** from dual redundant hot-swap power supplies, hot-swap CPU & Splitter modules

 **Local monitoring** via module LED's



 **Alarms** via LED's and CPU in chassis

 **Remote control & monitoring** via serial and Ethernet ports.

 **Compact** up to 32 splitter modules housed in a 3U high chassis





Technical specifications and operating parameters

Splitter Module—Technical Specifications and operating parameters					
Frequency Range	50 to 200 MHz (IF)				
Gain	x±1dB		X=0 to 6dB Nominal at 200MHz		
Slope	y dB positive slope		Y=0 to +6dB, Typical slope across 50 to 200MHz		
Impedance & RF Connectors	50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Gain Flatness	Full Band	±0.25 dB	±0.25 dB	±0.50 dB	±0.75 dB
	Any 36MHz	±0.10 dB	±0.10 dB	±0.20 dB	±0.30 dB
Input Return Loss	Typical	20 dB	20 dB	12 dB	10 dB
	Minimum	16 dB	14 dB	8 dB	8 dB
Output Return Loss	Typical	20 dB	20 dB	12 dB	10 dB
	Minimum	16 dB	14 dB	8 dB	8 dB
Card to Card Isolation	>70 dB, typically 80dB				
Output to Output Isolation	>20 dB, typically 25 dB			Individual Card	
Noise Figure	7dB Typical				
1dB GCP	+5 dBm 1dB gain compression point				
Input RF Power	+16 dBm Absolute maximum				
Power Consumption per Card	475 mW				
Operating Temperature	Operating: 0 to 45°C / Storage: -20°C to +75°C				
Humidity	20 to 90% non-condensing				
Local Control & Monitor	LED's for Status				
Alarms	Individual module LED and via CPU in Chassis. Also Amplifier status monitoring via HMI when used in a switch matrix system.				

Chassis Specifications		
Capacity	32 x 2-way Splitter modules	
Dimensions	3U high x 250mm deep x 19" wide	
Weight	10 kg	
Colour	White 00-E-55 semi-gloss	
Power Supply	85-264Vac 50-60Hz	Fused 2A, dual IEC
PSU	Dual Redundant	Diode OR
Remote Control	Via RS232 & RJ45 Ethernet 10BaseT	
Protocols	Serial (also over TCP/IP), Web Browser & SNMP	
Hot-Swap PSU	Yes	
Power Consumption	30W	Fully populated with DIV23 cards

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.

