ETL Systems

Excelling in RF Engineering

Model Number:
22302-DIV26-GxSy

32 x 2-way Active Wide Band Splitter Shelf

with preset gain and slope compensation

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.

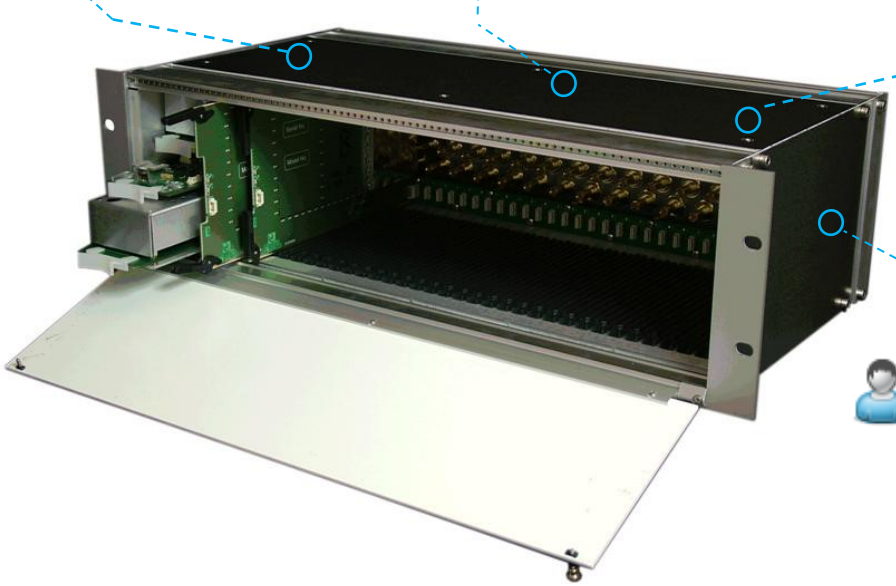
Typical applications:

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

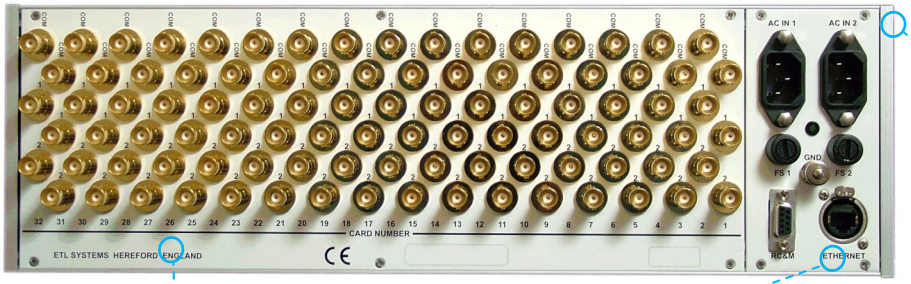
Preset gain & slope to compensate for system losses.

50 - 2450 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

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2-way Wide Band Splitter Module with preset gain and slope

Technical specifications and operating parameters

Splitter Module—Technical Specifications and operating parameters					
Frequency Range		50 to 2450 MHz			
Gain		x±1 dB		X=0 to 10 dB Nominal at 2450 MHz	
Slope		y dB positive slope		Y=0 to +6 dB, Typical slope across 50 to 2450 MHz	
Impedance & RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain Flatness	Full Band With ref to slope trendline	±0.75 dB	±0.75 dB	±0.75 dB	±1.0 dB
	Any 36 MHz	±0.45 dB	±0.45 dB	±0.45 dB	±0.7 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
Card to Card Isolation		>70 dB, typically 80 dB			
Output to Output Isolation		>20 dB, typically 25 dB, Individual Card			
Noise Figure		11 dB Typical			
1dB GCP		+3 dBm minimum			
Input RF Power		+16 dBm Absolute maximum			
Power Consumption per Card		475 mW per card			
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 DIV26 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.

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