

## Model Number: 22308-DIV82-Gx-Sy

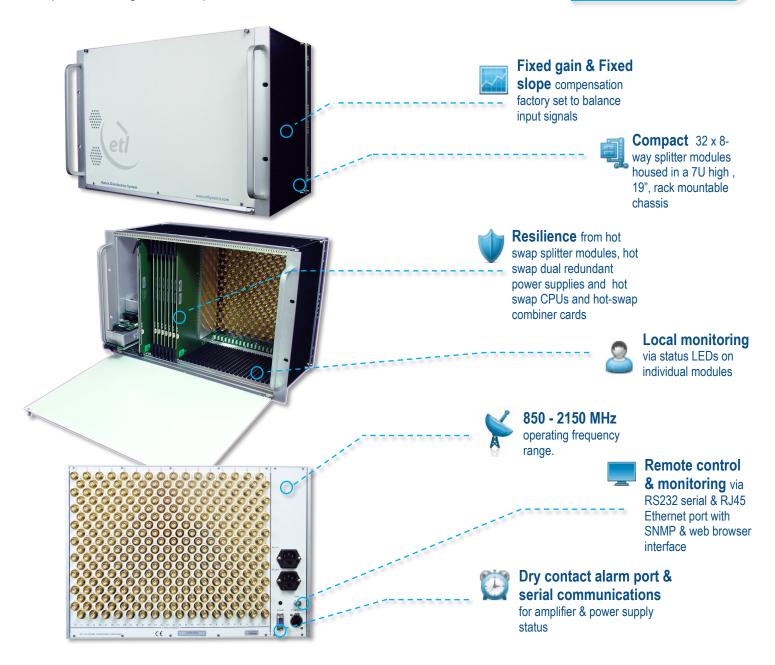
# 32 x 8-way Active L-band Splitter Shelf

### 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 hotswap passive systems to improve system design.



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#### Technical specifications and operating parameters

RF Parameters					
22308 Module slots used		Each splitter takes 1 slot. 32 slots available in chassis.			
Capacity		8-way splitter			
Frequency Range		850-2150 MHz (L-Band) *See application note below for use above 2150MHz.			
Gain		x± 1 dB		x= 0 to +10 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
Clatana	850-2150MHz	±0.75 dB	±0.75 dB	±1.25 dB	±1.25 dB
Flatness	Any 36MHz	±0.5 dB	±0.5 dB	±0.75 dB	±0.75 dB
Input Return Loss	Typical	18 dB	15 dB	12 dB	12 dB
	Minimum	14 dB	12 dB	10 dB	10 dB
Output	Typical	18 dB	15 dB	12 dB	12 dB
Return Loss	Minimum	14 dB	12 dB	10 dB	10 dB
laalatian	Card to Card	≥60 dB typical, ≥55 dB worst case			
Isolation	Port to port	23 dB Typical between any 2 output ports			
Noise Figure		14 dB Typical			
1dB GCP		+7 dBm 1 dB Gain Compression point, output power			
Input RF Power		+ 16 dBm Absolute maximum			

Note 1: The specification is subject to regular	reviews and will be updated from time to
time as part of our continuing product develop	oment and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

#### \*Extended Frequency Use Application Note:

These cards may be used for frequencies above 2150MHz with little degradation to the return loss performance up to 3000MHz; but note that the insertion gain typically plateaus at 2150MHz (the slope pivot point). This lack of slope compensation is likely acceptable for short cable runs (<2m). Please contact ETL Systems for further information if required.

Environmental		
Operating temperature	0 to 55°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	85% non-condensing	
Altitude	10,000 ft AMSL	

Power				
PSU Power	100-240Vac 50/60Hz	Fused 2A, Dual IEC		
AC Consumption	60W			
BUC Power	None			
PSU	Dual redundant	Diode OR		
Hot-swap PSU	Yes			
RF Monitoring	None			

System Control		
Local Monitoring	Via card status LEDs	
Remote Monitoring	Via RS232 serial port & RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web brow interface.	
Alarms	LED and via CPU in chassis	Also amplifier status monitoring via HMI when used in a switch matrix system

Physical		
Dimensions	7U high x 250mm deep x 19" wide	
Weight	15 kg	
Colour	RAL9003-White (semi-matte)	



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