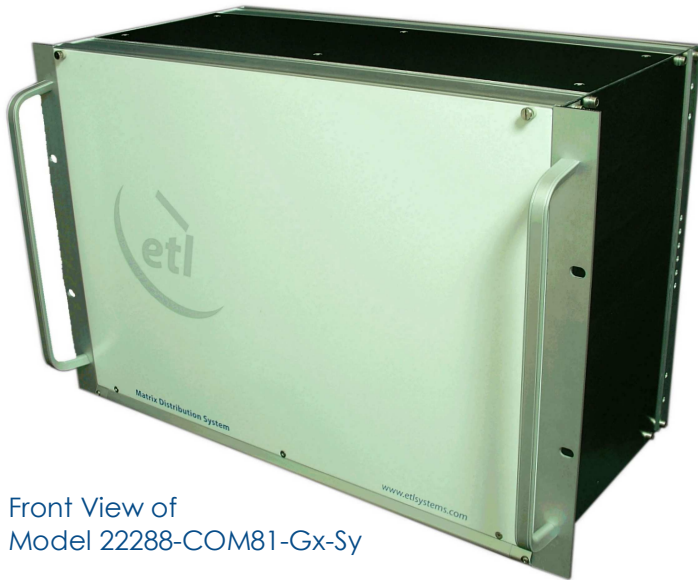




## Model Number: 22288-COM81-Gx-Sy

# 32 x 8-way Active IF Combiner Shelf for Matrix Systems

With hot-swap CPU, dual redundant power supplies & RF Modules



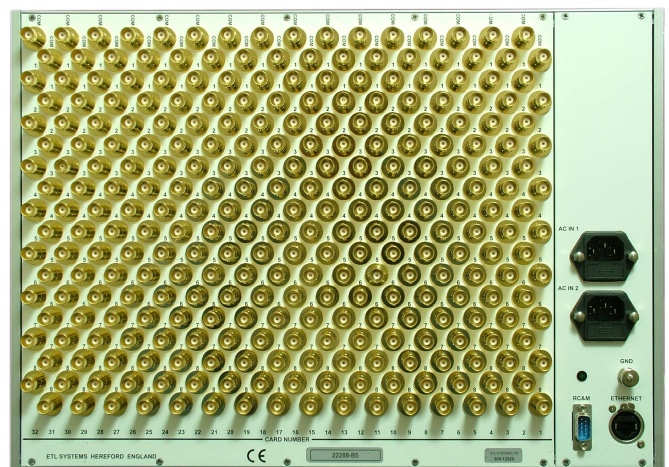
Front View of  
Model 22288-COM81-Gx-Sy

This modular matrix combiner system holds up to 32 single active combiner modules in a 7U high, 19" rack mountable chassis. The unit is designed to link ETL's range of matrices to make bigger matrix systems, such as 256 x 32, while saving rack space and offering excellent RF performance. This system has been designed with resilience in mind.

Resilience is provided via hot swap combiner modules, hot swap dual redundant power supplies, and a hot swap CPU. Matrix system RF performance can be optimized by factory setting of the Gain (Gx) and Slope Compensation (Sy); either to meet system RF requirements or to compensate for cable losses.

Remote Monitoring of the system can be done via the serial and Ethernet ports on the rear panel. This unit also includes Web Browser Interface as standard. Each RF module has an LED which provides simple local status monitoring.

This unit is available in a variety of impedances and connector types. ETL also offer a splitter version of this system (model numbers will vary).



Rear View of Model 22288-COM81-Gx-Sy





# Model Number: 22288-COM81-Gx-Sy

32 x 8-way Active IF Combiner Shelf for Matrix Systems  
with hot-swap CPU, dual redundant power supplies & RF  
Modules

RF Engineering  
and Custom Build

## Technical specifications and operating parameters PRELIMINARY SPECIFICATIONS

RF Parameters (Splitter Modules)			
Capacity		Up to 32 Splitter Modules (16 x A Modules & 16 x B Modules)	
Frequency Range		50-200 MHz (IF)	
Gain	$x \pm 1$ dB	$x = 0$ to +3 dB	Nominal, mean across band
Slope	y dB positive slope	$y = 0$	Slope compensation not available
Flatness	50MHz-200MHz	$\pm 0.50$ dB	CF Slope Selection
	Any 36MHz band	$\pm 0.25$ dB	
Card to Card Isolation		75 dB	85 dB typical
1 dB Compression		+ 10 dBm at output	
Noise Figure		15 dB (typical at 0 dB gain)	
Input Return Loss		15 dB (typical BNC 50Ω)	
Output Return Loss		18 dB (typical BNC 50Ω)	

Environmental (Chassis)	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

System Control (Chassis)	
Display	Status LEDs on individual modules and summary status LED on rear panel of chassis
Remote Interface	RS232 & RJ45 Ethernet 10baseT
Protocols	Serial (also over TCP/IP), Web Browser Interface, SNMP

Physical (Chassis)	
Input Connectors	BNC (75Ω or 50Ω), SMA (50Ω) or F-type 75Ω) - as rear panel adaptor
Input Impedance	75Ω or 50Ω
Output Connectors	BNC (75Ω or 50Ω), SMA (50Ω) or F-type 75Ω) - as rear panel adaptor
Output Impedance	75Ω or 50Ω
DC Blocking	Yes
Dimensions	7U high x 250mm deep x 19" wide
Weight	20 kg
Colour	White 00-E-55 semi-gloss

Power (Chassis)	
AC Power	85-264Vac 50/60Hz
LNB Power	None
PSU	Dual redundant
Hot-swap PSU	Yes

Key Features	
Dual Redundant Hot-swap PSU's	
Hot-swap CPU and Hot-swap Combiner Modules	
Remote Control & Monitoring	
For use with IF Matrix Systems	

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