



## Model Number: 22288-DIV81-Gx-Sy

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

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



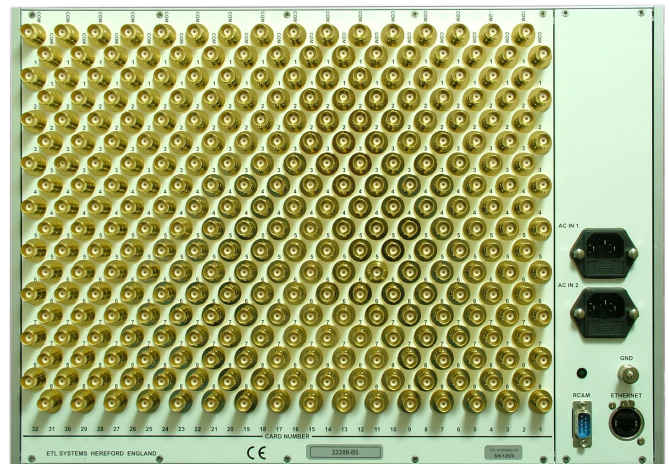
Front View of  
Model 22288-DIV81-Gx-Sy

This modular matrix splitter system holds up to 32 single active splitter 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 32 x 256, while saving rack space and offering excellent RF performance. This system has been designed with resilience in mind.

Resilience is provided via hot swap splitter 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 combiner version of this system (model numbers will vary).



Rear View of Model 22288-DIV81-Gx-Sy





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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 ± 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  | ± 0.50 dB      | CF Slope Selection               |
|                                  | Any 36MHz band  | ± 0.25 dB      |                                  |
| Card to Card Isolation           | 75 dB   | 85 dB typical  |                                  |
| 1 dB Compression                 | + 5 dBm at output   |                |                                  |
| Noise Figure                     | 11 dB (typical at 0 dB gain)                                |                |                                  |
| Input Return Loss                | 15 dB (typical BNC 50Ω)                                     |                |                                  |
| Output Return Loss               | 15 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 Splitter Modules |  |
| Remote Control & Monitoring                |  |
| For use with IF Matrix Systems             |  |

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