

8 x 16 L-band Matrix



The ETL *L-band distributive matrix* is a high performance switch matrix (or router) with up to 8 inputs and 16 outputs, integrated hot swap power supplies *in a 2U high shelf*. The matrix design has been optimised for earth stations which are non-symmetric in terms of number of inputs and outputs. The front panel display allows IP settings changes and shows CPU status.

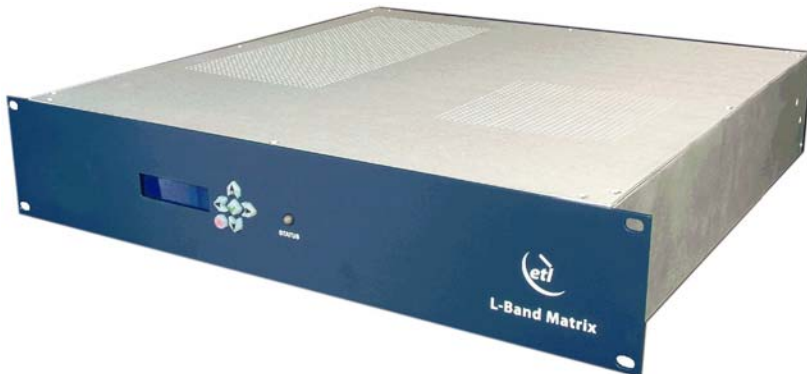


Fig 1 – Showing matrix front panel with status LED and LCD Display. Note this unit is custom finished in mid blue



Fig 2 – Showing similar matrix rear panel, part populated as 6 x 16. Note hot swap PSU modules; and serial and Ethernet remote control ports.

- The matrix is remote control only via an ethernet port (SNMP and TCP/IP), and via an RS232 / RS485 serial port.
- The matrix has the additional advantage of providing LNB powering to each of the RF inputs (which can be switched on / off remotely). LNB current is continuously monitored and reported externally.
- In the event of total power failure, all matrix settings are retained.
- The unit can be supplied in a partially populated state but the units must be returned to base for later expansion or maintenance.

ETL Model Number – M0816D2UFL-21161-F7



RESILIENCE FLEXIBILITY RF PERFORMANCE

Technical Specifications



• RF Parameters

Capacity	Up to 8 inputs, 16 outputs
Frequency Range	850 to 2150 MHz
Insertion Gain	0dB \pm 2dB nominal
Isolation (I/P to O/P)	50dB typical
Isolation (O/P to O/P)	55dB
Isolation (I/P to I/P)	55dB
Flatness (850-1450MHz)	\pm 1.0dB
Flatness (850-2150MHz)	\pm 1.75dB
Flatness (Any 36MHz)	\pm 0.5dB
Input Return Loss	>10dB
Output Return Loss	>10dB
Noise Figure	19dB
1dB Compression Point	0dBm typical

• System Control

Local Control	LCD & Keypad
Remote Control	Via Ethernet 10/100 base T, TCP/IP, SNMP or Serial Port RS232/RS422/RS485

• Environmental

Operating temperature	0 to 45°C
Location	Indoor use only
Storage Temperature	-20°C to +75°C
Humidity	85% Non-condensing

• Physical

Connectors	F-type (others available)
Impedance	75 Ω
Dimensions	2U high x 450mm deep x 19" wide
Weight	8kgs
Colour	White 00-E-55 semi-gloss, front panel

• Power

AC Power	85-264Vac 50/60Hz
LNB Power	18V dc 400mA, individually selectable per input
PSU	Dual, Hot swap
PSU Redundancy	Yes

• Key Features

In the event of total power failure, all matrix settings are retained.

ETL Systems develop, design and manufacture specialist equipment for satellite ground stations. For a fuller description of the ETL product range, please visit our website. This range can be used as the basis to meet your specific demands.



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