16 x 16 L-band Switch Matrix

The ETL 3U ***L-band distributive matrix*** is a high performance switch matrix (or router) with up to 16 inputs and 16 outputs, integrated power supplies and matrix controller in a 3U high shelf.

Picture of 16x16 Matrix

The matrix incorporates a standard ETL controller which can be remotely controlled via either a PC (using ETL software) or integrated into an M & C system. Dual redundant integrated power supply modules provide security against the impact of unforeseen failure. In the event of total power failure, all matrix settings are retained. The unit is normally equipped with F-type connectors but SMA or BNC connectors can be fitted. The unit can be supplied in a partially populated state but the units must be returned to base for later expansion or maintenance. Modular expansion is possible by linking the matrix to other slave units via RS485.

ETL Model Number – M1616D3UFL-F7

RESILIENCE FLEXIBILITY RF PERFORMANCE

Technical Specifications

• RF Parameters

Capacity	16 inputs x 16 outputs
Frequency Range	850-2150MHz
Insertion Gain	+ 3dB nominal (±2 dB)
1dB Compression	-10 dBm
Flatness	± 2 dB
Isolation (I/P to O/P)	40 dB
Noise Figure	7.5 dB
Input Return Loss	10 dB typical
Output Return Loss	10 dB typical

• Physical

Connectors	F-type (others available)
Impedance	75Ω
Dimensions	3U high x 450mm x 19” wide
Weight	11 kgs
Colour	White 00-E-55 Semi-Gloss Front Panel

• System Control

Local Control	Push Buttons
Remote Control	RS232/485 serial

• Power

AC Power	85-264Vac 50/60Hz
LNB Power	None available
PSU	Dual
PSU Redundancy	Yes

• Environmental

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

• Key Features

Integrated Controller

Retains settings if power/comms with controller fails

Unity Gain

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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