8x8 IF Matrix

The ETL *IF distributive matrix* is a high performance switch matrix (or router) with up to 8 inputs and 8 outputs, integrated power supplies and matrix controller in a 2U high shelf. 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.

Picture of Front & Rear Panel of
8x8 IF Matrix

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 BNC connectors but SMA and F-type 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 – M0808D2UFI-B7

RESILIENCE   FLEXIBILITY   RF PERFORMANCE

Technical Specifications

• RF Parameters

Capacity	8 inputs x 8 outputs
Frequency Range	20-200MHz
Gain	0dB ± 2dB (nominal, mean across band)
Flatness 20-200MHz	±1.5dB
70 ± 18MHz	±0.5dB
140 ± 36MHz	±0.5dB
1dB Compression	-5dB
Isolation (I/P to I/P)	60dB (>60dB typical)
Isolation (OP/OP)	60dB (>60dB typical)
Isolation (I/P to O/P)	60dB (>60dB typical)
Noise Figure	7.5dB
Input Return Loss	>10dB typical
Output Return Loss	>10dB typical

• System Control

Local Control	Push Buttons
Remote Control	RS232/485 serial (or RJ45 Ethernet connection-as an option, see M0808D2UFI-B7-E)

• Environmental

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

• Physical

Connectors	BNC (others available)
Impedance	75Ω
Dimensions	2U high x 450mm deep x 19" wide
Weight	11 kgs
Colour	White 00-E-55 Semi-Gloss Front Panel

• Power

AC Power	85-264Vac 50/60Hz
LNB Power	Not available
PSU	Dual
PSU Redundancy	Yes

• Key Features

Integrated Controller

Retains settings if power/comms with controller fails

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.