



16 x 16 Broadband Matrix

The ETL 3U **Broadband 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. It is suitable for the cable sector as a **UHF Distribution Matrix**. With modular expansion, the matrix can be easily expanded to a bigger unit. For example, a 96 * 16 matrix can be created from 1 master and 5 slave matrix modules.



Picture of 16x16 Broadband Matrix

The standard ETL controller can be remotely controlled via a PC (using ETL software) or integrated into an M & C system. Dual redundant integrated power supply modules provide protection against unforeseen failure. In the event of total power failure, all matrix settings are retained. The unit is normally equipped with BNC connectors but F-type connectors can be fitted.

ETL Model Number – M1616D3UFB-B5



RESILIENCE

FLEXIBILITY

RF PERFORMANCE

Technical Specifications



• RF Parameters

Capacity	16 inputs x 16 outputs
Frequency Range	50-1000MHz
Gain	+1 dB \pm 2 dB (nominal)
Flatness (freq vs gain)	\pm 1.25 dB typical
Isolation	
I/P to O/P	55 dB typical
I/P to I/P	65 dB typical
O/P to O/P	65 dB typical
1 dB Compression	-5 dBm
Noise Figure	7.5 dB
Input Return Loss	8 dB
Output Return Loss	12 dB

• System Control

Local Control	Push Buttons
Remote Control	RS232/485 serial (or RJ45 Ethernet Connection, as an option – see M1616D3UFB-B5-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
Impedance	50 Ω
Dimensions	3U high x 450mm x 19" wide
Weight	15 kgs
Colour	White 00-E-55 Semi-Gloss Front Panel

• Power

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

• Key Features

- Unity Gain
- 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.

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