



Model Number: **M1616D3UFI-S5**

RF Engineering
and Custom Build

16 x 16 IF Matrix

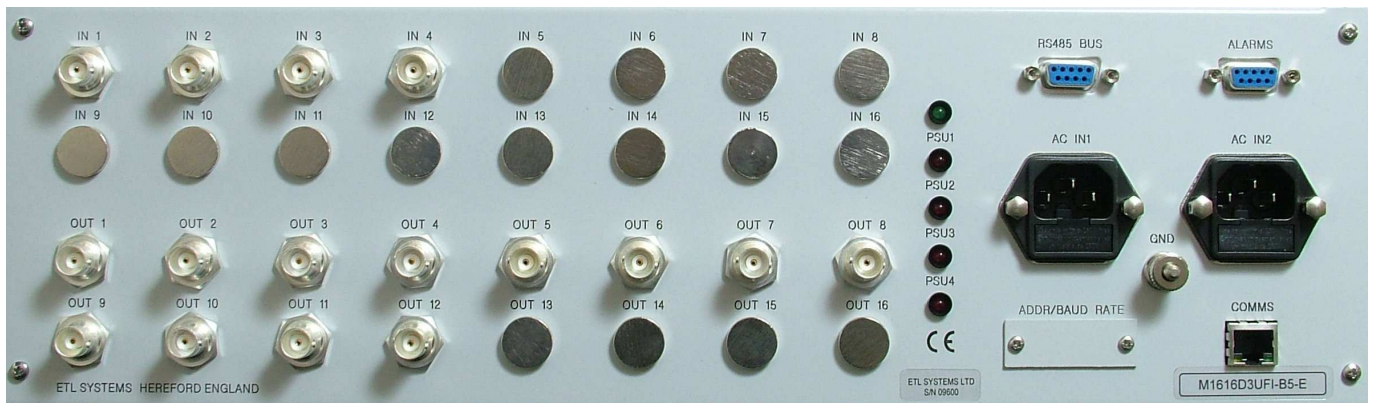
With Local & Remote Control (via RS232/422/485 Serial Port)



Front View of Model M1616D3UFI-S5

The ETL 3U IF 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. This unit can be locally controlled via front panel push buttons and LCD Display or remotely via the rear panel serial port.

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.



Rear View of Model M1616D3UFI-B5-E (with an Ethernet port)

The unit is supplied with 50 ohm SMA connectors, but a range of connector types and impedances are available, as well as the option of an Ethernet Port for remote control (model numbers will vary). 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 the serial port.





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16 x 16 L-band Matrix with Local & Remote Control (via RS232/422/485 Serial Port)

Technical specifications and operating parameters

RF Parameters

Capacity	16 inputs x 16 outputs	
Frequency Range	20-200 MHz (IF)	
Gain	0 dB \pm 2 dB nominal, mean across band	
Flatness	20-200MHz	\pm 1.25 dB
	70 \pm 20MHz	\pm 0.3 dB
	140 \pm 36MHz	\pm 0.5 dB
1dB Compression	0 dBm	
Noise Figure	7.5 dB	
Input Return Loss	15 dB typical	
Output Return Loss	12 dB typical	

System Control

Local Control	Via Front Panel LCD display and push buttons, allowing IP settings changes and shows PSU status
Remote Control	Via Serial (RS232/422/485) Port on rear panel Ethernet (RJ45) Port available as an option
Display	Front Panel LCD display
Alarms	Dry contact alarm port on rear panel for PSU failure

Physical

Connectors	SMA
Impedance	50 Ω
Dimensions	3U high x 450mm deep x 19" wide
Weight	11 kg
Colour	White 00-E-55 semi-gloss

Environmental

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

Power

LNB Power	None
AC Power	85-264Vac 50/60Hz Fused 2A
PSU	Dual redundant
Hot-swap PSU	No

Key Features

Local and Remote Control
Front Panel LCD Display
Dual redundant power supplies

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