



Model Number: **M1616D3UFI-B5**

RF Engineering  
and Custom Build

## 16 x 16 IF Matrix

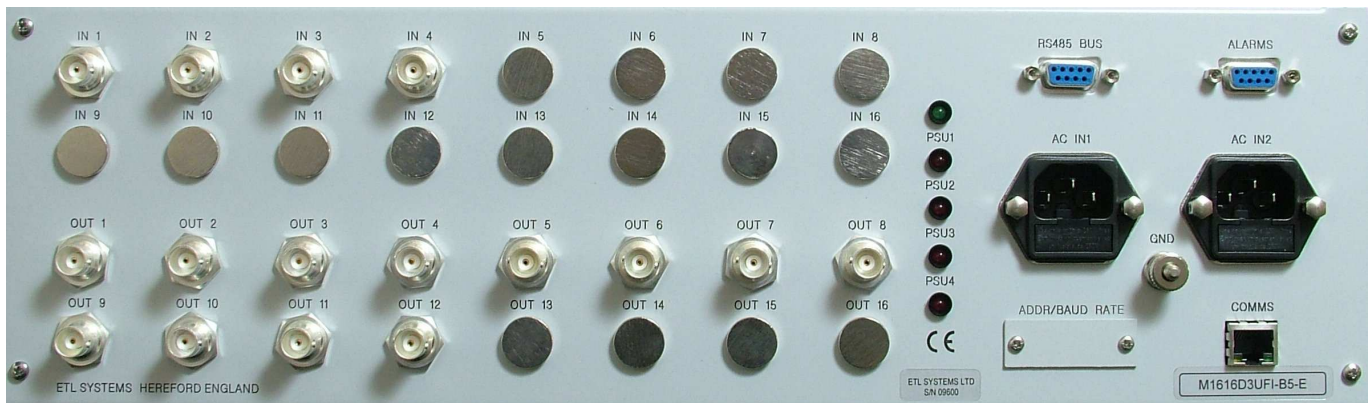
With Local & Remote Control (via RS232/422/485 Serial Port)



Front View of Model M1616D3UFI-B5

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 BNC 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.





# Model Number: M1616D3UFI-B5

RF Engineering  
and Custom Build

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	$\pm$ 1.5 dB
	Any 36MHz	$\pm$ 0.5 dB
1dB Compression	0 dBm	
Noise Figure	18 dB	
Isolation	I/P-I/P	75 dB typical
	O/P-O/P	60 dB typical
	I/P-O/P	60 dB typical
Input Return Loss	> 10 dB	
Output Return Loss	> 10 dB	

### 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	BNC
Impedance	50 $\Omega$
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

ETL SYSTEMS LIMITED  
Coldwell Radio Station  
Madley  
Hereford  
England HR2 9NE

TELEPHONE  
+44 (0)1981 259020  
  
EMAIL  
info@etlsystems.com

FACSIMILE  
+44 (0)1981 259021  
  
WEB  
www.etlsystems.com

