



Model Number: M1616D3UFI-21157-xxxx-A

16 x 16 IF Distributive Matrix

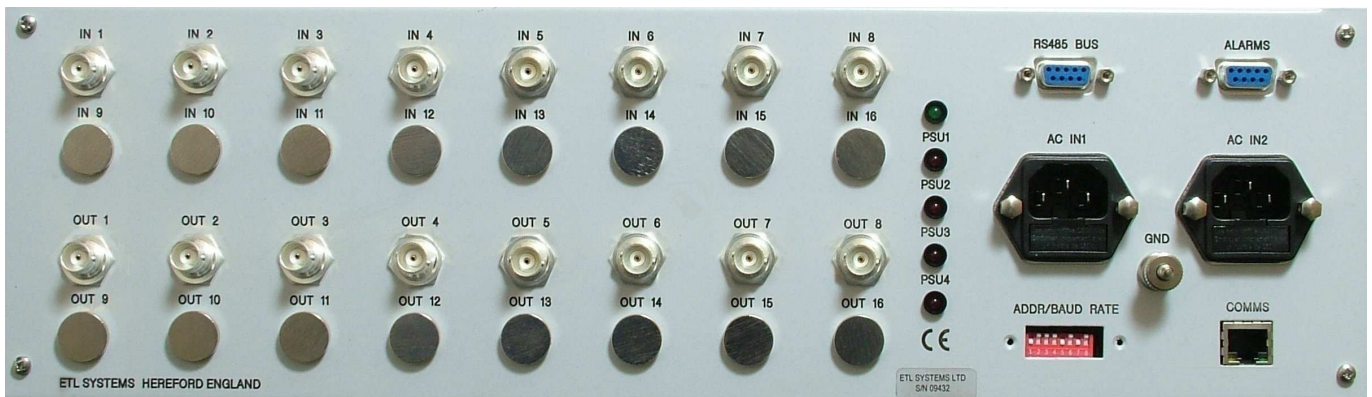
With Local & Remote Control (via RJ45 Ethernet Port & RS232/422/485 Serial Port) & +10dBm GCP



Front View of Model M1616D3UFI-21157-xxxx-A

The ETL IF distributive matrix is a high performance switch matrix (or router) with 16 inputs and 16 outputs, +10dBm 1dB gain compression point, integrated power supplies and matrix controller in a 3U high shelf. This unit can be locally controlled via front panel push buttons and display or remotely via the rear panel serial and Ethernet port, including SNMP and Web Browser Interface.

The matrix incorporates a standard ETL controller which can be remotely controlled via the Ethernet port using 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-21157-B5B5-A (part populated to 8 x 8)

The unit is available in a range of connector types and impedances (model numbers will vary).





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16 x 16 IF Distributive Matrix with Local & Remote Control (via RJ45 Ethernet Port & RS232 / 422 / 485 Serial Port) & +10dBm GCP

RF Engineering and Custom Build

Technical specifications and operating parameters

RF Parameters				
Capacity	16 inputs x 16 outputs			
Routing	Distributive, non-blocking	Any input can be connected to any number of outputs		
Frequency Range	20-200 MHz (IF)			
Gain	0 dB \pm 1 dB nominal, mean across band			
Flatness	20-200MHz	\pm 1.25 dB		
	20-200MHz	\pm 1.25 dB		
	70 \pm 20MHz	\pm 0.3 dB		
Isolation	I/P - I/P	75 dB typical	85 dB typical	
	O/P - O/P	60 dB typical	70 dB typical	
	I/P - O/P	60 dB typical	70 dB typical	
1 dB Compression	+10 dBm			
Noise Figure	19 dB			
RF Connectors	50 Ω SMA	50 Ω BNC	75 Ω BNC	75 Ω F-type
Input Return Loss	18 dB typ	16 dB typ	16 dB typ	15 dB typ
	15 dB min	12 dB min	12 dB min	10 dB min
Output Return Loss	15 dB typ	14 dB typ	14 dB typ	14 dB typ
	12 dB min	12 dB min	12 dB min	10 dB min

System Control	
Local Control	Via Front Panel display and push buttons, allowing IP settings changes and shows PSU status
Remote Control	Via Ethernet Port (RJ45) 10/100 base T on rear panel, including SNMP & Web Browser Interface
Display	Front Panel display
Alarms	Dry contact alarm port on rear panel for PSU failure

Physical	
Dimensions	3U high x 450mm deep x 19" wide
Weight	15 kg
Colour	White 00-E-55 semi-gloss

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

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

Key Features	
Local and Remote Control	
+10 dBm Gain Compression Point	
Front Panel Display	
Dual redundant power supplies	

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