



Model Number: **M0808D2UFI-B5B5-A**

RF Engineering
and Custom Build

8 x 8 IF Distributive Matrix

With Local & Remote Control (via RJ45 Ethernet Port and RS232/422/485 Serial Port)



Front view of Model M0808D2UFI-B5B5-A

The ETL 2U 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. 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 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 similar model

The unit is supplied with 50 ohm BNC connectors, but a range of connector types and impedances are available (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.





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Technical specifications and operating parameters

PRELIMINARY SPECIFICATIONS

RF Parameters			
Capacity		8 inputs x 8 outputs	
Routing		Distributive	One input can be routed to many outputs
Frequency Range		20-200 MHz (IF)	
Gain		0 dB \pm 1.5 dB nominal, mean across band	
Flatness	20-200MHz	\pm 1.5 dB	\pm 1 dB typical
	70 \pm 18MHz	\pm 0.5 dB	
	140 \pm 36MHz	\pm 0.5 dB	
1dB Compression		+4 dBm	
Isolation	I/P - I/P	50 dB	60 dB typical
	O/P - O/P	50 dB	60 dB typical
	I/P - O/P	50 dB	60 dB typical
Noise Figure		20 dB	
Noise Floor		Better than -100 dBm / Hz	
Group Delay		1.7ns across L-band	
Input Return Loss		10 dB	
Output Return Loss		12 dB	

System Control	
Local Control	Via Front Panel display and push buttons
Remote Control	Via rear panel Serial (RS232/422/485) Port and Ethernet (RJ45) Port, including SNMP & Web Browser Interface
Display	Front Panel display
Alarms	Dry contact alarm port on rear panel for PSU failure

Power	
AC Power	90-264Vac 50/60Hz
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

Physical	
Input Connector	BNC
Input Impedance	50 Ω
Input Connector	BNC
Input Impedance	50 Ω
Dimensions	2U high x 450mm deep x 19" wide
Weight	11 kg
Colour	White 00-E-55 semi-gloss

Key Features	
Local and remote control	
Front Panel 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

