



Model Number: M0808D2UFI-B7B7

RF Engineering
and Custom Build

8 x 8 IF Matrix

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



Front View of Model M0808D2UFI-B7B7

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 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 M0808D2UFI-B7B7

The unit is supplied with 75 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.





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Technical specifications and operating parameters

PRELIMINARY SPECIFICATIONS

RF Parameters		
Capacity	8 inputs x 8 outputs	
Frequency Range	20-200 MHz (IF)	
Gain	0 dB \pm 2 dB nominal, mean across band	
Flatness	20-200MHz	\pm 1.5 dB
	70 \pm 18MHz	\pm 0.5 dB
	140 \pm 36MHz	\pm 0.5 dB
1dB Compression	+5 dBm	
Isolation	I/P - I/P	>60 dB typical
	O/P - O/P	>60 dB typical
	I/P - O/P	>60 dB typical
Noise Figure	7.5 dB	
Noise Floor	Better than -100 dBm / Hz	
Group Delay	1.7ns across L-band	
Phase Noise	Compliance with IESS phase noise mask	
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

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	75 Ω
Input Connector	BNC
Input Impedance	75 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 LCD Display	
Dual redundant power supplies	

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