



**Model Number: M0808C2UFI-B7B7-A**

## 8 x 8 IF Combining Matrix

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



Front View of Model M0808C2UFI-B7B7-A

The ETL 2U IF combining 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 75 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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RF Engineering  
and Custom Build

8 x 8 IF Combining Matrix with Local & Remote Control  
(via RJ45 Ethernet Port and RS232/422/485 Serial Port)

## Technical specifications and operating parameters

### PRELIMINARY SPECIFICATIONS

RF Parameters		
Capacity	8 inputs x 8 outputs	
Routing	Combining, non-blocking	Many inputs can be routed to one output
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 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	75 $\Omega$
Input Connector	BNC
Input Impedance	75 $\Omega$
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

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