



Model Number: **M0824D4UFL-F7F7**

RF Engineering  
and Custom Build

# 8 x 24 L-band Matrix

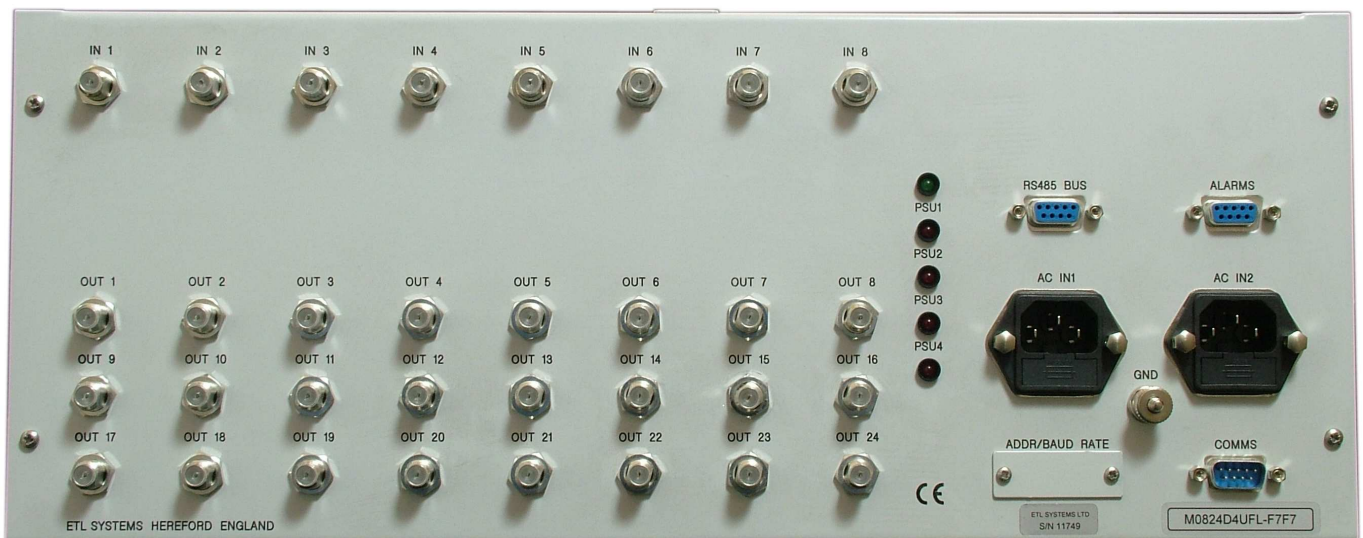
With local and remote control (via RS232/422/485 Serial Port)  
Designed for ships



Front View of Model M0824D4UFL-F7F7

The ETL 4U L-band distributive matrix is a high performance switch matrix (or router) with up to 8 inputs and 24 outputs, integrated power supplies and matrix controller in a 4U high shelf. The matrix design is ideal for marine applications, which have non-symmetric satellite downlinks in terms of number of inputs and outputs. Offering the matrix in a single unit enhances RF performance, reduces cost and is faster to install than traditional solutions.

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 supplies provide security against the impact of unforeseen failure.



Rear View of Model M0824D4UFL-F7F7

In the event of total power failure, all matrix settings are retained. The unit can be supplied in a partially populated state but the units must be returned to base for later expansion or maintenance. This particular unit has 75 ohm F-type connectors, but other impedances and connector types are available.





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## Technical specifications and operating parameters

RF Parameters		
Capacity	8 inputs x 24 outputs	
Frequency Range	850–2150 MHz (L-band)	
Gain	$\pm 1$ dB $\pm 1.5$ dB nominal, mean	
Flatness	850-2150MHz	$\pm 2.0$ dB typical
	Over any 36MHz	$\pm 0.75$ dB typical
Isolation	Adjacent port (I/P-O/P)	40 dB typical
	Non-adjacent port (I/P-O/P)	> 40 dB
	I/P to I/P	> 50 dB
	O/P to O/P	> 60 dB
1 dB Compression	0 dBm typical	
Noise Figure	7.5 dB	
Input Return Loss	10 dB typical	
Output Return Loss	10 dB typical	

System Control	
Display	Front panel LCD Display
Local Control	Front panel LCD Display & Push Buttons
Remote Control	RS232/485 serial port (or RJ45 Ethernet connection – as an option, see M0824D4UFL-B5-E)
Alarms	Dry contact alarm port on rear panel for PSU failure

Power	
AC Power	85-264Vac 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	F-type
Input Impedance	75Ω
Output Connector	F-type
Output Impedance	75Ω
Dimensions	4U high x 450mm deep x 19" wide
Weight	15 kg
Colour	White 00-E-55 semi-gloss (Front panel)

Key Features	
Ideal for Marine Applications	
Simple protocol for M & C integration	
Local and remote control	
Alarmed internal PSU's and Integrated Controller	

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