

Model Number: M0824D4UFL-B5



8 x 24 L-band Matrix

Designed for ships



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.

Front View of Model M0824D4UFL-B5

Offering the matrix in a single unit enhances RF performance, reduces cost and is faster to install than traditional solutions.



Rear View of Model M0824D4UFL with 75 ohm F-type connectors

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. 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 50 ohm BNC connectors, but other impedances and connector types are available.



RESILIENCE

RELIABILITY

RF

PERFORMANCE

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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	± 1 dB ± 1.5 dB nominal, mean across band	
Flatness	850–2150MHz	± 2.5 dB typical
	Any 36MHz band	± 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
1dB Compression Point	0 dBm typical	
Noise Figure	7.5 dB	
Input Return Loss	12 dB typical	
Output Return Loss	12 dB typical	

System Control	
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)

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

Physical	
Connectors	BNC
Impedance	50Ω
Dimensions	4U high x 450mm deep x 19" wide
Colour	White 00-E-55 semi-gloss (Front panel)
Weight	15 kg

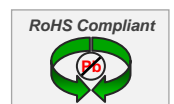
Power	
AC Power	85-264V AC (50/60Hz) Fused 2A
LNB Power	None
PSU	Dual redundant
Hot-swap PSU	No

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



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ETL Systems design, develop and manufacture specialist equipment for satellite ground stations. For a full description of the ETL product range, please see our website at www.etlsystems.com. This product range provides the basis for meeting your specific demands.



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