



Model Number: M0816D2UFL-21161-B5B5

8 x 16 L-band Matrix

With LNB Powering, local and remote control (via RS232/422/485 Serial and RJ45 Ethernet Port)



The ETL L-band distributive matrix is a high performance switch matrix (or router) with up to 8 inputs and 16 outputs, integrated hot swap power supplies in a 2U high shelf. The matrix design has been optimised for earth stations which are non-symmetric in terms of number of inputs and outputs.

Front View of Model M0816D2UFL-21161-B5B5

Local control is via the front panel display, which allows IP settings changes and shows CPU status. Remote control of the unit is done via an Ethernet port (SNMP and TCP/IP), and via an RS232 / 422 / 485 serial port on the rear panel. The matrix has the additional advantage of providing LNB powering to each of the RF inputs (which can be switched on / off remotely). LNB current is continuously monitored and reported externally. In the event of total power failure, all matrix settings are retained.



Rear View of Model M0816D2UFL-21161 with 75 ohm F-type connectors

The unit can be supplied in a partially populated state but the units must be returned to base for later expansion or maintenance.

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





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RF Engineering and Custom Build

Technical specifications and operating parameters

PRELIMINARY SPECIFICATIONS

RF Parameters		
Capacity	8 inputs x 16 outputs	
Frequency Range	850-2150 MHz (L-band)	
Gain	0 dB \pm 2 dB nominal, mean across band	
Flatness	850-1450MHz	\pm 1.2 dB
	850-2150MHz	\pm 1.75 dB
	Over any 36MHz	\pm 0.5 dB
1 dB Compression	0 dBm	
Noise Figure	19 dB	
Isolation	I/P-I/P	55 dB
	O/P-O/P	55 dB
	I/P-O/P	40 dB 50 dB typical
Input Return Loss	14 dB typical	
Output Return Loss	14 dB typical	

Power	
AC Power	85-264Vac 50/60Hz Fused 2A
LNB Power	400mA @ 18V dc per input, individually selectable
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	50Ω
Output Connector	BNC
Output Impedance	50Ω
Dimensions	2U high x 450mm deep x 19" wide
Weight	8 kg
Colour	White 00-E-55 semi-gloss

System Control	
Display	LCD Display, which allows IP settings changes and shows CPU status
Local Control	Front Panel LCD display & keypad
Remote Control	Via Serial (RS232/422/485) Port and Ethernet (RJ45 10/100 base T, TCP/IP & SNMP) Port on rear panel
Alarms	Dry contact alarm port on ear panel for PSU failure

Key Features	
Local and remote control	
LNB Powering	
Dual redundant power supplies	
Matrix settings retained in the event of total power failure	

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