

## Model Number: M0816D2UFL-21161-B7B7

# 8 x 16 L-band Matrix

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



Front View of Model M0816D2UFL-21161-B7B7

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.

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 75 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 ± 2 dB no across band	minal, mean	
Flatness	850-1450MHz	± 1.25 dB		
	850-2150MHz	± 2.5 dB		
	Over any 36MHz	± 0.5 dB		
1dB 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		10 dB typical		
Output Return Loss		10 dB typical		

Syst	em 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

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	75Ω	
Output Connector	BNC	
Output Impedance	75Ω	
Dimensions	2U high x 450mm deep x 19" wide	
Weight	8 kg	
Colour	White 00-E-55 semi-gloss	

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

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