



Model Number: M1616C3UFL-B5B5-A

RF Engineering
and Custom Build

16 x 16 L-band Combining Matrix

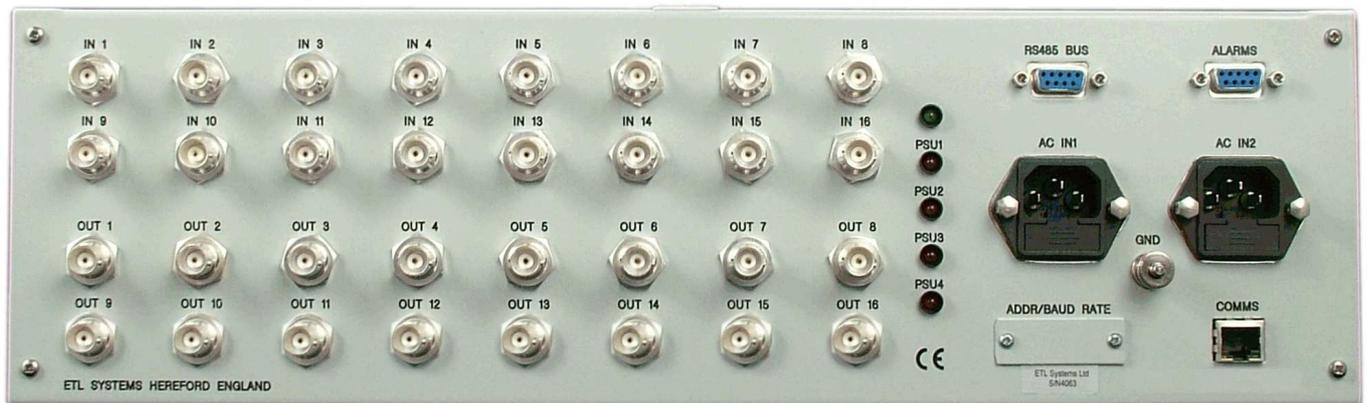
With Local & Remote Control (via RJ45 Ethernet Port & RS232/422/485 Serial Port)



Front View of Model M1616C3UFL-B5B5-A

The ETL 3U L-band combining matrix is a high performance switch matrix (or router) with up to 16 inputs and 16 outputs, integrated power supplies and matrix controller in a 3U 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 50 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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Technical specifications and operating parameters

RF Parameters	
Capacity	16 inputs x 16 outputs
Frequency Range	850-2150MHz (L-band)
Gain	3 dB nominal (± 2 dB)
Flatness	± 2.0 dB
1 dB Compression	0 dBm
Isolation (Adjacent channel)	>40 dB typically
Noise Figure	7.5 dB
Group Delay	2.7ns across L-band
Phase Noise	Compliance with IESS phase noise mask
Input Return Loss	>10 dB
Output Return Loss	>10 dB

Physical	
Input Connector	BNC
Input Impedance	50 Ω
Output Connector	BNC
Output Impedance	50 Ω
Dimensions	3U high x 450mm deep x 19" wide
Weight	11kg
Colour	White 00-E-55 semi-gloss

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

Power	
AC Power	85-264Vac 50/60Hz
LNB Power	None
PSU	Dual redundant
Hot-swap PSU	No

Key Features	
Local and Remote Control	
Front Panel display	
Dual redundant power supplies	

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

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