



Model Number: M1602B3UFO-21147-S5S5

16 x 2 SHF Blocking Matrix

With Local & Remote Control (Via RJ45 Ethernet Port)



This ETL SHF matrix is a high performance blocking switch matrix (or router) with 16 inputs and 2 outputs, integrated power supplies and matrix controller in a 3U shelf. It has a frequency operating range of 3 GHz to 18 GHz.

Front View of Model M1602B3UFO-21147-S5S5

The matrix incorporates a standard ETL controller which can be remotely controlled via a PC (using ETL software) or integrated into an M & C system.



Rear View of Model M1602B3UFO-21147-S5S5

This passive matrix allows any input to be routed to any output and utilises latching, self terminating coaxial relays/multi-switches with isolation (minimum 60 dB at 18 GHz), and an expected operating life of 10⁶ cycles. In the event of total power failure, all matrix settings are retained, and the latching relays will maintain the routed paths through the matrix providing uninterrupted operation. The unit is normally equipped with 50 ohm SMA connectors.





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RF Engineering
and Custom Build

Technical specifications and operating parameters

RF Parameters	
Capacity	16 inputs x 2 outputs
Frequency Range	3 GHz – 18 GHz (SHF)
Isolation (I/P to O/P)	60 dB at 18 GHz
Insertion Loss	< 7 dB at 18 GHz
Switch Type	Latching Self Terminating, Coaxial Relay/multi-switch
Expected Switch Life	10 ⁶ cycles

System Control	
Display	Front Panel LED's for LNB Power & PSU status
Local Control	Front Panel LCD Display and keypad
Remote Control	TCP/IP RJ45 Ethernet Port on rear panel

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

Physical	
Input Connectors	SMA
Input Impedance	50Ω
Output Connectors	SMA
Output Impedance	50Ω
Dimensions	3U high x 450mm deep x 19" wide
Weight	12 kg
Colour	White 00-E-55 semi-gloss or Matt Black (Front panel)

Power	
AC Power	90-264V AC (50/60Hz)
LNB Power	None
PSU	Dual Redundant
Hot-swap PSU	No

Key Features	
Simple Protocol for M & C Integration	
Integrated Controller	
Alarmed internal PSU's	
Retains settings if power fails or if communications with controller fails	

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