



## 8 x 8 IF Distributive Matrix

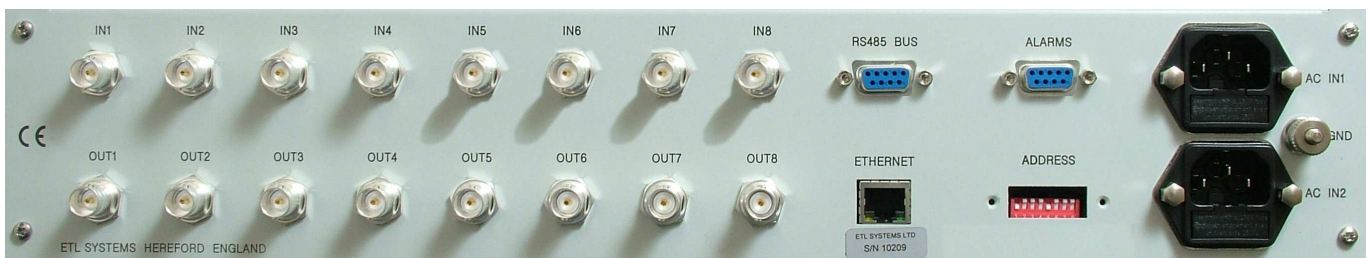
With Local & Remote Control (via RJ45 Ethernet Port and RS232/422/485 Serial Port)



Front view of Model M0808D2UFI-B5B5-A

The ETL 2U IF distributive matrix is a high performance switch matrix (or router) with up to 8 inputs and 8 outputs, integrated power supplies and matrix controller in a 2U 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.





# Model Number: M0808D2UFI-B5B5-A

RF Engineering  
and Custom Build

8 x 8 IF Distributive Matrix with Local & Remote Control (via  
RJ45 Ethernet Port and RS232/422/485 Serial Port)

Technical specifications and operating parameters

## PRELIMINARY SPECIFICATIONS

| RF Parameters      |                 |   |   |
|--------------------|-----------------|---|---|
| Capacity           |                 | 8 inputs x 8 outputs                        |   |
| Routing            |                 | Distributive                                | One input can be routed to many outputs |
| Frequency Range    |                 | 20-200 MHz (IF)                             |   |
| Gain               |                 | 0 dB $\pm$ 1.5 dB nominal, mean across band |   |
| Flatness           | 20-200MHz       | $\pm$ 1.5 dB                                | $\pm$ 1 dB typical                      |
|                    | 70 $\pm$ 18MHz  | $\pm$ 0.5 dB                                |   |
|                    | 140 $\pm$ 36MHz | $\pm$ 0.5 dB                                |   |
| 1dB Compression    |                 | +4 dBm                                      |   |
| Isolation          | I/P - I/P       | 50 dB                                       | 60 dB typical                           |
|                    | O/P - O/P       | 50 dB                                       | 60 dB typical                           |
|                    | I/P - O/P       | 50 dB                                       | 60 dB typical                           |
| Noise Figure       |                 | 20 dB                                       |   |
| Noise Floor        |                 | Better than -100 dBm / Hz                   |   |
| Group Delay        |                 | 1.7ns across L-band                         |   |
| Input Return Loss  |                 | 10 dB                                       |   |
| Output Return Loss |                 | 12 dB                                       |   |

| 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  |

| Power        |                   |
|--------------|-------------------|
| AC Power     | 90-264Vac 50/60Hz |
| LNB Power    | None              |
| 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 | 50 $\Omega$                     |
| Input Connector | BNC                             |
| Input Impedance | 50 $\Omega$                     |
| Dimensions      | 2U high x 450mm deep x 19" wide |
| Weight          | 11 kg                           |
| Colour          | White 00-E-55 semi-gloss        |

| Key Features                  |  |
|-------------------------------|--|
| Local and remote control      |  |
| Front Panel Display           |  |
| Dual redundant power supplies |  |

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