



Model Number: 23178-F7F7

RF Engineering
and Custom Build

8 x 1 IF / L-band LS Series Switch

With Local & Remote Control (Via RS232/422/485 and RJ45 Ports)

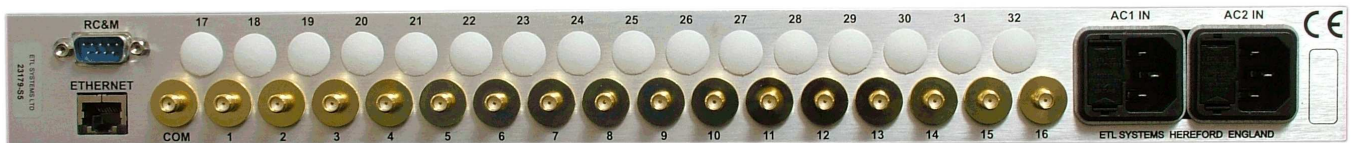


This 8x1 IF through L-band switch operates over the 50-2150MHz frequency range. The unit can be locally controlled using the keypad and display on the front panel, and remotely controlled via a Serial or Ethernet port on the rear panel.

Front View of Model 23178-F7F7

The front panel HMI allows selection of the desired switch position, network configuration, shelf name and the ability to reboot the CPU.

The switch benefits from dual redundant power supplies, which can be monitored via the serial or Ethernet port on the rear panel.



Rear View of similar Model 23179 (16x1) with 50 ohm SMA connectors

As with all ETL switches the simple serial protocol facilitates rapid integration into most M & C systems.

This unit has 75 ohm F-type connectors but others are available (model numbers will vary).





Model Number: 23178-F7F7

RF Engineering
and Custom Build

LS Series IF / L-band Switch with Local & Remote Control
(Via RS232/422/485 and RJ45 Ports)

Technical specifications and operating parameters

PRELIMINARY SPECIFICATIONS

| RF Parameters | | | |
|--------------------|---|-----------|---------------------|
| Capacity | 8 x 1 | | |
| Frequency Range | 50-2150 MHz (IF / L-band) | | |
| Gain | 1.0 dB \pm 1.0 dB nominal, mean across band | | |
| Isolation | I/P—O/P | 65 dB | |
| | I/P—I/P | 70 dB | |
| 1dB Compression | +5 dBm | | |
| Flatness | \pm 1.5 dB | | |
| Noise Figure | 17 dB | | |
| Spurious | In band | <-95 dBm | Typically <-105 dBm |
| | Out of band | <- 80 dBm | 10MHz-3GHz |
| Input Return Loss | 12 dB typical | | |
| Output Return Loss | 12 dB typical | | |

| Physical | |
|------------------|---------------------------------|
| Input Connector | F-type |
| Input Impedance | 75 Ω |
| Output Connector | F-type |
| Output Impedance | 75 Ω |
| Dimensions | 1U high x 450mm deep x 19" wide |
| Weight | 6 kg |
| Colour | White 00-E-55 semi-gloss |

| Power | |
|--------------|----------------------------|
| AC Power | 85-264Vac 50/60Hz Fused 2A |
| LNB Power | None |
| PSU | Dual redundant |
| Hot-swap PSU | No |

| System Control | |
|----------------|---|
| Local Control | Via front panel push buttons and LCD Display |
| Remote Control | Via rear panel Serial (RS232/422/485) or Ethernet (RJ45) Port |
| Display | Front panel LCD Display |

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

| Key Features | |
|--|--|
| Local and Remote Control (Serial & Ethernet ports) | |
| Housed in a compact 1U high chassis | |
| Dual redundant power supplies | |

ETL SYSTEMS LIMITED
Coldwell Radio Station
Madley
Hereford
England HR2 9NE

TELEPHONE
+44 (0)1981 259020
EMAIL
info@etlsystems.com

FACSIMILE
+44 (0)1981 259021
WEB
www.etlsystems.com

