





This matrix distributes 8 L-Band signals to 8 receivers in the frequency range 950 ... 2150 MHz without any blocking.

## Design

The matrix is housed in a 19" subrack with very good RF shielding and consists of the following subassemblies:

- amplifiers with high dynamic range
- matrix boards 8x8
- processor board
- LAN interface
- manual control
- redundant power supply
- DC bias for LNB

All the necessary signal and power supply connections as well as the mains switches are provided at the rear.

## Control

The matrix is controlled via a LAN interface.

The integrated webserver allows the unit configuration, shows status information and obtain trouble shooting information.

Crosspoint settings will be possible also.

## **Special features**

The unit is constructed using a modular approach utilising plug-in sub-assemblies which enable ease of installation and maintenance.

**Technical data** measured a 25° (

Model number: MAS4478

**Item number:** (will be assigned after order)

Configuration: 8 inputs, 8 outputs

non-blocking

RF specifications

Impedance (Ohm): 75

Frequency range (MHz): 950...2150

Gain (dB): 1 +/-1.0

Gain flatness (dB): +/-1.5 typ.

Noise figure (dB): 13.0 max. VSWR: 1.8 : 1 max.

Intercept point (dBm):

**3rd order** +8 min. **2nd order** +20 min.

Isolation (dB):

Out/out 40 min.

**On/off** 45 min. (50 typ.)

Crosstalk 45 min. (50 typ.), worst case

P1 dBc (dBm): -7
Switching elements: solid-state

Further specifications

Control: LAN

Manual control: LCD & cursor pushbuttons

**RF connectors:** F or BNC female

Power supply (Vac, Hz): 80...264, 47...63, redundant 3-pin, with mains filter & fuses integrated in the power supplies 14,18/22 each, 300 mA max.

Temperature range (°C):

Operating 0...50

**EMC:** in accordance to Eur. standard

EN 61000-6-1 & EN 61000-6-3

Dimensions:

Height (RU) 1 Width (inch) 19

about 380
(without connectors & handles)

Front panel:

Depth (mm)

Front view painted (RAL7021)