





The matrix distributes 32 L-Band signals to 32 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:

- low noise amplifiers with high dynamic range
- I/O boards (in- and output)
- power dividers 4 times 4-way
- matrix boards 8x8
- solid-state switches 4 times SP4T
- processor board
- LAN and serial interface
- manual control module (optional)
- redundant power supply units (optional)
- DC bias for LNB (optional)

All the necessary signal, power supply and earthing connections are provided at the rear.

The mains switches are located on the front panel.

The matrix is controlled via a LAN and a serial

A manual control module with LC display and pushbuttons could be integrated on the front panel.

Special features

In order to improve operational safety the unit can be equipped with redundant power supply units and a manual control module.

The power supply voltages and the I/O boards are monitored in a processor routine.

The selected crosspoints as well as the I/O fault messages are displayed on the manual control

A status string can also be requested at any time via the control interface.

The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data

Model number: MAS5320

Item number: (will be assigned after order)

32 inputs, 32 outputs Configuration:

non-blocking

RF specifications

Impedance (Ohm): 50/75 Frequency range (MHz): 950...2150 Gain (dB): 1+/-1.5 max. Gain flatness (dB): +/-2 typ. Noise figure (dB): 18.0 max.

Intercept point (dBm):

3rd order +8 min. 2nd order +20 min. -7

P1 dBc (dBm):

VSWR: 1.8:1 max.

Isolation (dB):

Out/out 40 min.

On/off 45 min., 50 typ. Crosstalk 45 min., 50 typ. (worst case)

Switching elements: solid-state switches

Further specifications

Control: LAN and serial

Manual control: LCD (4x20) & pushbuttons (3x6)

F female/SMA female RF connectors: Power supply (Vac, Hz): 115/230, 47...63

Connector 3-pin, with mains filter & fuses

Mains switches: with integrated lamp

Temperature range (°C):

Operating 0...25, forced air cooling

recommended

EMC: in accordance to Eur. standard

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

Dimensions:

Height (RU) 6 Width (inch) 19

about 480 Depth (mm)

(without connectors & handles)

Front panel:

Front view painted (RAL7032)