



This matrix distributes 4 broadband signals to 4 receivers in the frequency range 20...3000 MHz without any blocking.

Design

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

- amplifiers with high dynamic range
- matrix board 4x4
- processor board
- LAN interface
- manual control
- redundant power supply

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.

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 at 25° C
Model number:	MAS4454
Item number:	1400233
Configuration:	4 inputs, 4 outputs non-blocking
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20...3000
Gain (dB):	1 +/-1.0
Gain flatness (dB):	+/-2.0 max., +/-1.0 typ.
Noise figure (dB):	13.0 max.
VSWR:	2.0 : 1 max., 1.5 : 1 typ.
Intercept point (dBm):	
3rd order	+15 min.
2nd order	+30 min.
Isolation (dB):	
Out/in	50 min.
On/off	60 min.
Crosstalk	45 min., 55 typ.
Input level (dBm):	+13CW max.
Switching elements:	solid-state
Further specifications	
Control:	LAN
Manual control:	8 illuminated pushbuttons
RF connectors:	SMA female
Power supply (Vac, Hz):	80...264, 47...63, redundant
Connector	3-pin, with mains filter & fuses
Mains switches:	integrated in the power supplies
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
Depth (mm)	about 380 (without connectors & handles)
Front panel:	
Front view	painted (RAL7021)