The matrix distributes 8 IF signals to 8 receivers in the frequency range 20…200 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 boards 8x8
- 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.
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° C
Model number:	MAS4485
Item number:	
Configuration:	8 inputs, 8 outputs non-blocking
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20…200
Gain (dB):	1 +/-1.0 max.
Gain flatness (dB):	+/-1.0 max.
Noise figure (dB):	15.0 max., 13 typ.
VSWR:	1.3 : 1 max.
Intercept point (dBm):	
3rd order	+20 min., +25 typ.
Isolation (dB):	
Out/out	45 min., switched to same input
On/off	70 min.
Crosstalk	70 min.
P1 dBc (dBm):	+10 max.
Switching elements:	solid-state
Further specifications	
Control:	LAN
Manual control:	LCD & cursor pushbuttons
RF connectors:	SMA or BNC female
Power supply (Vac, Hz):	115/230, 50/60, 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)