



The matrix consists of 2 blocks. One distributes 2 HF signals to 4 receivers and the other one distribute 5 VHF/UHF signals to 4 receivers 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
- power dividers 4-way
- relays (HF part)
- solid-state switches (VHF/UHF part)
- processor board
- LAN interface
- voltage monitoring
- manual control module

All the necessary signal, power supply and earthing connections are provided at the rear. The mains switch is located on the front panel.

### Control

The matrix is controlled via a LAN interface. Other interfaces are possible on request.

### Special features

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 module.

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		measured at 25° C
Model number:	MAS2307	
Item number:	1400119	
Configuration:	2 inputs, 4 outputs - HF 5 inputs, 4 outputs - VHF/UHF non-blocking	
RF specifications		
Impedance (Ohm):	50	
Frequency range (MHz):	0.01...30	20...3000
Gain (dB):	1+/-1.0	1+/-1.0
Gain flatness (dB):	+/-1.0 max.	+/-2.0 max.
Noise figure (dB):	9.0 max.	10.0 max.
VSWR:	1.5 : 1 max.	2.0 : 1 max.
Intercept point (dBm):		
3rd order	+30 min.	+15 min.
2nd order	+60 min.	+30 min.
Isolation (dB):		
Out/out (divider)	30 min.	25 min.
Crosstalk	60 min.	50 min.
P1 dBc (dBm):	+10 max.	0 max.
Switching elements:	relays	solid-state
Further specifications		
Control:	LAN	
Manual control:	LCD (4x20) & pushbuttons (3x6)	
RF connectors:	N female, 50 Ohm	
Power supply (Vac, Hz):	230, 50	
Connector	3-pin, with mains filter & fuses	
Mains switch:	with integrated lamp	
Temperature range (°C):		
Operating	0...50	
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3	
Dimensions:		
Height (RU)	3	
Width (inch)	19	
Depth (mm)	about 480 (without connectors & handles)	
Front panel:		
Front view	painted (RAL7032)	