The matrix distributes 8 VHF/UHF signals to 16 receivers in the frequency range 20…4000 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:

- low noise amplifiers with high dynamic range
- power dividers 8 times 2-way
- matrix boards 8x8
- processor board
- LAN and serial interface
- manual control module
- redundant power supply units

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 and a serial interface.
The integrated webserver allows the unit configuration, shows status information and obtain trouble shooting information.
A manual control interface with Lc display and pushbuttons is integrated on the front panel.

Special features
The I/O boards are monitored in a processor routine. 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.

Management System
ISO 9001:2008

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Technical data	measured a 25° C
Model number:	MAS6420
Item number:	
Configuration:	8 inputs, 16 outputs
	non-blocking

RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20…4000
Gain (dB):	2+/- 1
Gain flatness (dB):	+/-2.5 max.
Noise figure (dB):	15.0 max.
VSWR:	2.0 : 1 max.
Intercept point (dBm):	
3rd order	+10 min.
2nd order	+20 min.
Isolation (dB):	
Out/out	40 min.
On/off	55 min.
Crosstalk	40 min.
P1 dBc (dBm):	0 min.

Further specifications	
Control:	LAN and serial
Manual control:	LCD (4x20) & pushbuttons (3x6)
RF connectors:	SMA-female
Power supply (Vac, Hz):	115/230, 50/60 redundant
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	Light grey