



This matrix distributes 8 Broadband signals to 8 receivers in the frequency range 20...4200 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
<b>Model number:</b>	MAS4489
<b>Item number:</b>	will be assigned after order
<b>Configuration:</b>	8 inputs 8 outputs non-blocking
RF specifications	
<b>Impedance (Ohm):</b>	50
<b>Frequency range (MHz):</b>	20...4200
<b>Gain (dB):</b>	1 +/-2.0 max.
<b>Gain flatness (dB):</b>	+/-2.5 max.
<b>Noise figure (dB):</b>	15.0 max.
<b>VSWR:</b>	2.0 : 1 max.
<b>Intercept point (dBm):</b>	
3rd order	+10 min.
2nd order	+30 min.
<b>Isolation (dB):</b>	
Out/in	70 min.
Out/out	50 min.
On/off	70 min.
Crosstalk	40 min.
<b>Input level (dBm):</b>	+10 CW max.
<b>P1 dBc (dBm):</b>	+5 typ.
<b>Switching elements:</b>	solid-state
Further specifications	
<b>Control:</b>	LAN
<b>Manual control:</b>	LCD & cursor pushbuttons
<b>RF connectors:</b>	SMA female
<b>Power supply (Vac, Hz):</b>	80...264, 47...63, redundant
Connector	3-pin, with mains filter & fuses
<b>Mains switches:</b>	integrated in the power supplies
<b>Temperature range (°C):</b>	
Operating	0...50
<b>EMC:</b>	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
<b>Dimensions:</b>	
Height (RU)	1
Width (inch)	19
Depth (mm)	about 380 (without connectors & handles)
<b>Front panel:</b>	
Front view	painted (RAL7021)