



**This matrix distributes 8 IF and L-Band signals to 8 receivers in the frequency range 30 ... 2150 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 (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 troubleshooting information.

### Special features

The unit is constructed using a modular approach utilising plug-in sub-assemblies which enable ease of installation and maintenance.

<b>Technical data MAS4488</b>		measured at 25 °C
<b>Model number:</b>	<b>MAS4488</b>	
<b>Configuration:</b>	8 inputs 8 outputs non-blocking	
<b>RF specifications:</b>		
<b>Impedance:</b>	50 Ohm	
<b>Frequency range:</b>	30 ... 2150 MHz	
<b>Gain:</b>	1 ± 2.0 dB	
<b>Gain flatness:</b>	± 2.0 dB max.	
<b>Noise figure:</b>	15.0 dB max.	
<b>VSWR:</b>	2.0 : 1 max., 1.5 : 1 typ.	
<b>Intercept point:</b>	3rd order + 15 dBm min. 2nd order + 25 dBm min.	
<b>Isolation:</b>	Out/in 50 dB min. Out/out (same input) 40 dB min. On/off 50 dB min. Crosstalk 50 dB min., 60 dB typ.	
<b>Input level:</b>	13 dBm CW max.	
<b>Switching elements:</b>	solid-state switches	
<b>Further specifications:</b>		
<b>Control:</b>	LAN	
<b>Manual control:</b>	LCD and cursor pushbuttons	
<b>RF connectors:</b>	SMA female, 50 Ohm	
<b>Red. power supply:</b>	80 ... 264 VAC, 47 ... 63 Hz	
<b>Connectors:</b>	3-pin, with mains filter and fuses rear panel	
<b>Mains switch:</b>	rear panel	
<b>Temperature range:</b>	Operating 0 ... 50 °C	
<b>EMC:</b>	in accordance to European standard EN 61000-6-1 and EN 61000-6-3	
<b>Dimensions:</b>	Height 1 U Width 19" Depth about 380 mm (without connectors and handles)	
<b>Front panel:</b>	Front view painted (RAL 7021)	

**IF-, L-Band MATRIX  
Model MAS4488**