



The Rx matrix distributes 16 IF signals to 16 receivers in the frequency range 50...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:

- low noise amplifiers with high dynamic range
- power divider boards (input boards)
- matrix boards
- 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.

A manual control module with LC display and pushbuttons could be integrated on the front panel.

Special features

A status string can also be requested at any time via the control interface.

The selected crosspoints as well as the I/O fault messages are displayed on the manual control module.

The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data		measured a 25° C
Model number:	MAS4970	
Item number:	1400334	
Configuration:	16 inputs, 16 outputs non-blocking	
RF specifications		
Impedance (Ohm):	50	
Frequency range (MHz):	50...200	
Gain (dB):	0 +/-1.0 max.	
Gain flatness (dB):	+/-1.0 max.	
Noise figure (dB):	18.0 max.	
VSWR:	1.4 : 1 max.	
Intercept point (dBm):		
3rd order	+20 min.	
2nd order	+30 min.	
Isolation (dB):		
Out/out	40 min.	
On/off	65 min.	
Crosstalk	60 min., 65 typ.	
P1 dBc (dBm):	0 max.	
Further specifications		
Control:	LAN and serial	
Manual control:	LCD (4x20) & pushbuttons (3x6)	
RF connectors:	BNC 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	painted (RAL7032)	

