VHF/UHF Matrix Model MAS4342

The matrix distributes 8 VHF/UHF signals to 8 receivers in the frequency range 200...400 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
Model number:	MAS4342
Item number:	1400188
Configuration:	8 inputs, 8 outputs non-blocking
RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	200...400
Gain (dB):	1 +/-1.0
Gain flatness (dB):	+/-2.0 max.
Noise figure (dB):	16.0 max.
VSWR:	2.0 : 1 max.
Intercept point (dBm):	
3rd order	+20 min.
Isolation (dB):	
Out/out	50 min.
On/off	70 min.
Crosstalk	70 min.
Input power (dBm):	+10 CW max.
P1 dBc (dBm):	+10 max.
Switching elements:	solid-state
Further specifications	
Control:	LAN
Manual control:	LCD & cursor pushbuttons
RF connectors:	SMA female
Power supply (Vac, Hz):	80...264, 47...63, redundant
Connector	3-pin, with mains filter & fuses
Mains switches:	integrated in the power supplies
Temperature range (°C):	
Operating	0...50
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
Dimensions:	
Height (RU)	1
Width (inch)	19
Depth (mm)	about 380 (without connectors & handles)
Front panel:	
Front view	painted (RAL7021)