EUROSATCOM

Broadband 3.4 – 26.5GHz
4x8 MATRIX
NON-BLOCKING - MAR4500

The matrix distributes 4 broad band signals to 8 outputs in the frequency range 3.4-26.5 GHz min. 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
- power dividers
- coaxial relays SP4T
- internal cabling
- LAN interface
- manual control module (optional)
- redundant power supply units as option

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 interface.

Special features

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.

Technical data	measured a 25° C
Model number:	MAR4500
Item number:	(will be assigned after order)
Configuration:	4 inputs, 8 outputs non blocking, full fan out
RF specifications	
Impedance (Ohm):	50
Frequency range (GHz):	3.4 - 26.5 GHz
Gain (dB):	1+/-2 (average gain)
Gain flatness (dB):	+/- 3.0 typ.
Noise figure (dB):	9 max. (8 typ.)
VSWR:	2.3 : 1 max. at inputs 2.0 : 1 max. at outputs
Intercept point (dBm):	
3rd order	+10 min., (+15 typ.)
Isolation (dB):	
Out/out	18 min. 20 typ. at same input
On/off	55 min.
Crosstalk	50 min.
P1 dBc (dBm):	0 min, (+3 typ.)
Switching elements:	Coaxial relays with internal termination
Further specifications	
Control:	LAN TCP/IP or UDP
Manual control:	LCD & pushbuttons, optional
RF connectors:	SMA female
Power supply (Vac, Hz):	115/230, 50/60
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)

Designed & produced by NOVOTORNIK GmBH

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