This Tx matrix distributes 8 Broadband signals to 8 antennas in the frequency range 20…3000 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:	MAS4488
Item number:	1400266
Configuration:	Tx matrix with 8 inputs, 8 outputs combining

RF specifications	
Impedance (Ohm):	50
Frequency range (MHz):	20…3000
Gain (dB):	1 +/-1.5 max.
Gain flatness (dB):	+/-2.0 max.
Noise figure (dB):	18.0 max.
VSWR:	2.0 : 1 max.
Intercept point (dBm):	
3rd order	+15 min.
2nd order	+30 min.
Isolation (dB):	
Out/in	60 min.
Out/out	40 min.
On/off	50 min.
Crosstalk	50 min.
Input level (dBm):	+13 CW max.
P1 dBc (dBm):	+5 typ.
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)

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