Full Fan-Out Matrix Switch

MAR4452

HF(1–40MHz)

EUROSATCOM
VSATECH ASSOCIÉ

novotronik offers a switching system which performs from 1 to 40 MHz. It is configured as a full fan-out non-blocking switch matrix, allowing any output to select any input.
The MAR4452 supports up to 64 antennas and 128 receivers.

TECHNICAL DATA

Type No. 1400309

Number of inputs	64
Number of outputs	128
Architecture	Non-blocking, full-fan out, three stage matrix
Frequency range	1 – 40 MHz
Gain (dB)	1 ± 1
Flatness (dB)	± 1 (full band)
Noise Figure (dB)	10 dB typ., 12 max.
OPIP3 (dBm)	18 min., 20 typ.
OPIP2 (dBm)	38 min., 40 typ.
Isolation (dB)	
out/out	33 min., 36 typ.
on/off	70 min., 75 typ.
Crosstalk (dB)	60 min, 65 typ
VSWR	
Input	1.4:1 typ., 1.55:1 max.
Output	1.4:1 typ., 1.55:1 max.
Input pwr (dBm)	
non destructive	+10 max. CW
Impedance (Ω)	50
Connectors	
Input	BNC female
Output	BNC female
Local control	Touch display, front panel
Remote control	RJ45 Ethernet port 10/100 Base T. TCP/IP & UDP, SNMP , GUI (browser interface)
Power supply	115/230 V AC (50/60 Hz)
AC consumption	350VA max..
Temperature range	Indoor use only
Operating	0 ... + 40°C
Storage	-10 ... +60°C
Colour	Front panel: RAL7032
Attached hardware	Power cord Operating manual
Dimensions (WxHxD)	483mm x 533mm x 500mm (19" drawer, 12U)

FEATURES

- Non-switched in- and outputs internally loaded
- Temperature controlled fans
- Shut-down of unused amps
- Permanent monitoring of temperature, fans and modules

OPTIONS

- Lightning protection (additional unit, novotronik type no. 1200242)
- Remote control software

DESCRIPTION

Thanks to a three-stage technology the design is significantly more compact than common matrices are.

Hot-swap switchboard modules allow superior supportability and easy maintenance. Thanks to the modularity, inputs can be configured from 8 to 64 in steps of eight, outputs can be configured from 8 to 128 in steps of eight.
The use of high-quality HF parts and solid-state switching elements guarantee the highest signal performance.

The MAR4452 supports local and remote control. Routings can be monitored and changed, the status of a lot of parameters can be verified. All inputs and outputs are provided at the rear of the rack utilising BNC-Type connectors.

APPLICATIONS

The MAR4452 is designed for a long-term installation at fixed-site radio stations.