全扇出矩阵开关 – MAR4452
HF (1 – 40 MHz)

TECHNICAL DATA   @ 25°C

Part 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 typ., 12 max.
OPIP3 [dBm]	18 min., 20 typ.
OPIP2 [dBm]	38 min., 40 typ.
Isolation [dB] out/out on/off	33 min., 36 typ. 70 min., 75 typ.
Crosstalk [dB]	60 min, 65 typ
VSWR Input Output	1.4:1 typ., 1.55:1 max. 1.4:1 typ., 1.55:1 max.
Input power [dBm] non destructive	+10 max. CW
Impedance [Ω]	50
Connectors Input Output	BNC female 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 Operating Storage	Indoor use only 0 … +40°C -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

The following options are available:

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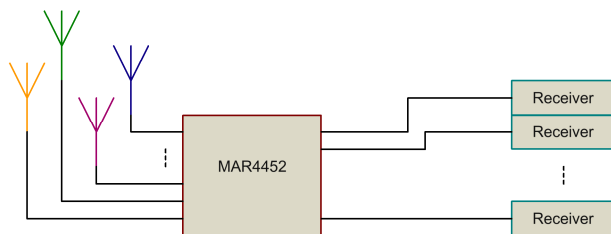- Remote control software

DESCRIPTION

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.

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.

ABOUT US

novotronik is a Germany-based electronics engineering company. **novotronik** specialises in meeting the needs of government and defence, telecommunication, broadcast and aerospace. We have about 25 years experience producing state of the art technology for your applications.

OUR SKILLS

novotronik develops and manufactures technically sophisticated products. As a **certified aerospace and defence company novotronik** operates a quality management system in accordance with ISO 9001:2015 and EN 9100:2018 (equivalent to AS 9100D and JISQ 9100:2016 including ISO 9001:2015).

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