



# Full Fan-Out Matrix Switch MAR4660

Ultra-broadband (20 - 6000 MHz)

novotronik offers a system which performs from 20 to 6000 MHz. It is configured as a full fan-out non-blocking switch matrix, allowing any output to select any input.

At any time either input #1 or input #2 is connected to an output. Interaction between receivers connected to MAR4660 is minimized due to high isolation between outputs.



## TECHNICAL DATA

### Type No. 1400352

Number of inputs	2
Number of outputs	10
Architecture	Non-blocking, full-fan out Switching: coaxial relays, latching, indicator
Frequency range	20 - 6000 MHz
Gain (dB)	@ 20 MHz: 8 dB typ @ 2000 MHz: 4 dB typ @ 6000 MHz: 0 dB typ @ 20 MHz: 6 dB max @ 2000 MHz: 8 dB max @ 6000 MHz: 12 dB max @ 20 MHz: +4 dBm min @ 2000 MHz: +4 dBm min @ 6000 MHz: +1 dBm min
Noise Figure (dB)	
OPIP3 (dBm)	
Isolation (dB)	
out/out	@ 20 MHz: 30 dB min @ 2000 MHz: 25 dB min @ 6000 MHz: 25 dB min
VSWR	
Input	1.8:1 typ, 2.0:1 max
Output	1.8:1 typ, 2.0:1 max
Input pwr (dBm)	
@ 1dB compr.	@ 20 MHz: -15 dBm min @ 2000 MHz: -10 dBm min @ 6000 MHz: -4 dBm min
Relay	
Life	2.5 million cycles
Impedance ( $\Omega$ )	50
Connectors	
Input	N female
Output	N female
Local control	LC display and keyboard, front panel

### Remote control

RJ45 Ethernet port
10/100 Base T.
TCP/IP & UDP,
GUI (browser interface)
RS-232/422/485 interface
(selectable)
115/230 V AC (50/60 Hz)
40VA max.
Indoor use only
0 ... +40°C
-10 ... +60°C
Front panel: RAL7032
Power cord
Operating manual
483mm x 133mm x 480mm
(19" drawer, 3U)
9 kg

## FEATURES

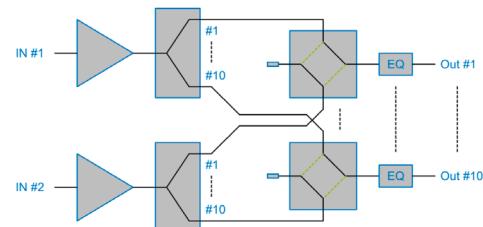
- Equalizer at each output
- Permanent monitoring of internal temperature, operating voltages, modules and switch positions

## OPTIONS

- Redundant power supply
- SNMP (protocol version 1)
- Relay switching cycle counter for life time management

## DESCRIPTION

The MAR4660 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 N- Type connectors.





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### APPLICATIONS

The MAR4660 is designed for a long-term installation at fixed-site radio stations. It is suitable for the following purposes:

- Antenna switching in wideband receiver systems
- Wideband Radio Monitoring Systems
- ITU Radio Monitoring Systems
- RF Switching Systems



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