



Full Fan-Out Matrix Switch

MAR2810

VLF/LF/MF/HF(0.01-30MHz)

The MAR2810 is configured as a full fan-out non-blocking switch matrix. Each input is split to all output switches.

This allows to select the input signal to be seen on each output. The obvious upside is its great switching flexibility.



TECHNICAL DATA

Type No. 1400312

Number of inputs	4
Number of outputs	8
Architecture	Non-blocking, full-fan out Switching: small signal relays
Frequency range	0.01 - 30 MHz
Gain (dB)	1 ± 1
Flatness (dB)	± 0.5 typ., ± 1 dB max. (full band)
Noise Figure (dB)	7 dB typ., 8 dB max.
OPIP3 (dBm)	+30 dBm min., +32 dBm typ.
OPIP2 (dBm)	+60 dBm min., +75 dBm typ.
Isolation (dB)	
out/out	25 dB min., 28 dB typ.
on/off	70 dB min., 80 dB typ.
VSWR	
Input	1.4:1 typ., 1.5:1 max.
Output	1.2:1 typ., 1.5:1 max.
Output pwr (dBm)	
@ 1dB compr.	+10 min., +12 typ.
Input pwr (dBm)	
non destructive	+15 CW max.
Relay	
Life (per position)	2 million cycles
Impedance (Ω)	50
Connectors	
Input	N female
Output	BNC female
Remote control	RJ45 Ethernet port 10/100 Base T. TCP/IP & UDP, GUI (browser interface) RS-232/422/485 interface (selectable)
Power supply	115/230 V AC (50/60 Hz)
AC consumption	35VA 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 133mm x 480mm (19" drawer, 3U)
Weight	8 kg

FEATURES

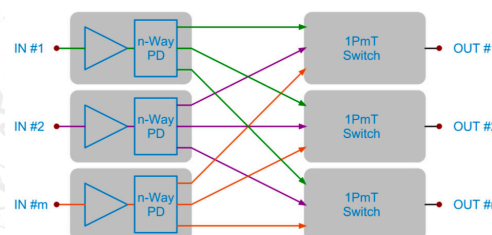
- Non-switched in- and outputs internally loaded
- Ins/outs equipped with DC-blocking capacitors
- Permanent monitoring of internal temperature, operating voltages, modules and switch positions

OPTIONS

- EMP lightning protector (@ input)
- RF limiter 1 - 30 MHz (@ input)
- Redundant power supply

DESCRIPTION

The MAR2810 performs from 10kHz to 30 MHz. The matrix has low noise figure and high second and third order intercept points. This ensures a high system sensitivity and improves the reception of low amplitude signals. High isolation between outputs minimises undesirable interaction between the receivers connected to the matrix. The matrix supports remote control. Routings can be monitored and changed, the status of different parameters can be requested.



APPLICATIONS

- HF communications
- Low frequency communication
- Antenna switching

