

Patch Panel Switch Matrix – DC to 6000 MHz

MS-4101 Patch Panel Switch Matrix

4101 Series Switch Matrix

The 4101 Patch Panel is a switch matrix designed to automate an RF patch panel. It is an economical solution compared to a distribution switch matrix. Housed in a 3RU profile the system connects any one Input to any one Output, having a total of 4 active signals in any given moment.

The wideband operation covers DC to 6000 MHz frequency range using a compact architecture, with potential uses including **ATE, 5G, downlink, and uplink applications.**

This series showcases the latest CrossPoint controller technology, which allows controlling the switch matrix via a user-friendly Web Interface. The new controller also adds the port nickname labeling that aids differentiation when switching between several similar antennas or receivers.



MS-4101 with SMA females shown



Features	Benefits
Coaxial Relay Switching	High performance, low loss, excellent signal integrity
Redundant Power	Uptime reliability
Convection Cooled	No fan maintenance needed
Port Nickname Labeling	Differentiate between similar receivers / antennas.
Web Interface	User-Friendly and intuitive
Remote Control	Use LAN, RS-232 or RS-422 serial protocols to remotely control signals

Environmentals

80-264 VAC, 50-60 Hz	
Standard AC grounded power cable (removable, IEC 320 C19 to NEMA 5-15P)	
FuseBreaker:	Externally accessible/replaceable
Storage Temperature:	-20° C to +75°C
Operating Temperature:	0°C to +50°C
Operating Humidity:	5 – 95% (non-condensing)

Specifications

Frequency Range (MHz)	DC – 6000
Number of Input Ports	4
Number of Output Ports	4
Gain (dB)	-3.5 to 0
Input Return Loss (dB)	14
Output Return Loss (dB)	14
Isolation (dB)	50
Max Power Level (dBm)	+40
Impedance (Ohms)	50
Available RF Connectors	N or SMA, female
AC Voltage	85 to 264 VAC 50 – 60 Hz
Size (in.)	5.25 H x 19 W x 18.1 D
Remote Protocols	LAN (telnet, http), RS-232, RS-422

For more information about the functionality of CrossPoint patch panel switch matrixes, read the patch panel section of the the switch matrix application note available at:
<https://crosspointtechnologies.com/technical-documents/>