NEXUS-4

4 GHz Bi-Directional RF Attenuator Matrix Switch

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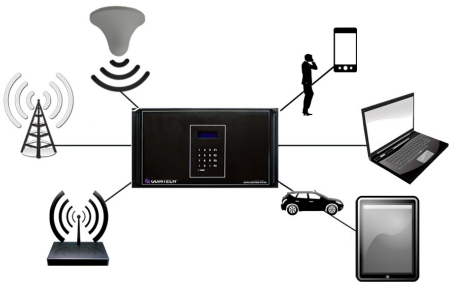

General Description:

The ***NEXUS-4*** is a bi-directional fully non-blocking 32x32 RF matrix switching system that can route any input ports to any output ports in a 6 RU chassis. With the frequency range of 700 MHz to 4 GHz and the capability of expanding to 256x256, it enables large scale wireless testing that involves many MIMO base stations and devices. The built-in programmable attenuators and efficient automation interface provide ease-of-use testing of signal fade and emulation of mobility scenarios. It can dramatically increase lab efficiency by eliminating manual patch panel and cabling as it can be remotely reconfigured for different test setups consistently in seconds. The utilization of ***NEXUS-4*** RF matrices will expand your testing capabilities, improve ROI of lab instruments, and reduce time to market.

Features & Benefits:

- 700 to 4000 MHz frequency range covering all major wireless technologies
- Support 32x32 RF ports in 6 RU with modular design expandable to 256x256
- Solid state switching and attenuation for consistent, repeatable and glitchless performance; reconfigure any test setup in seconds
- Fully non-blocking splitting and combining that supports MIMO testing
- Emulate free space incremental path loss of 0 to 60 dB
- High power handling of up to 30 dBm
- Management software ***Q-LAAMP*** enables resource and time allocation for high lab efficiency

Specifications:*	*NEXUS-4*
Operating Frequency:	700-4000 MHz
Configuration:	Up to 32 Port A/32 Port B in a Single 6 RU Chassis
Matrix Type:	Passive Bi-directional, Fully Non-blocking
Switching Technology:	Solid State
Impedance:	50 Ω
OIP3:	60 dBm Min.
P1dB:	40 dBm Min.
Fixed Attenuation:[1]	48 dB Max. @ 4 GHz
Variable Attenuation (at each cross point):	0 to 60 dB Attenuation in 0.5 dB Steps
Isolation Port A to Port A:	100 dB Single Connection, 50 dB Multiple Connections
Isolation Port B to Port B:	80 dB Single Connection, 50 dB Multiple Connections
Isolation Port A to Port B:	100 dB
On/ Off Isolation:[2]	100 dB
Return Loss:	14 dB Typ.
No Damage Signal Level:	+40 dBm Max.
RF Connectors:	N-type, SMA, QMA, TNC, 4.3-10
Power Requirements:	100-240 VAC Autoranging, 50/60 Hz
Power Consumption:	63 W
Local Control:	Front Panel Keypad with LCD Display
Remote Control:	Ethernet, TELNET, SNMP, or TCP/IP Via Customer Supplied Control System, XR Bus for Expansion
Software:	Embedded Web Server and API Protocol, Fast Ethernet Option, ***Q-LAAMP*** Option
Mechanical:	6 RU: 10.5” H x 19” W x 25” D
Weight:	117 lbs in 32x32 Configuration
Certifications:	FCC Part 15, CE, NRTL, TUV

*All product designs and specifications subject to change without notice. See individual specification sheet for specific performance data.
[1]Includes insertion loss of unit. The ON/OFF difference is 65 dB minimum

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