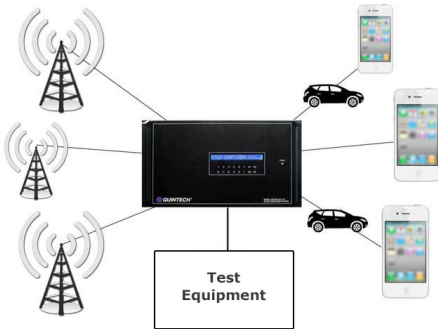


# NEXUS-3

## Full Duplex LTE RF Matrix Switch



### General Description:

The NEXUS-3 is a bi-directional, fully non-blocking matrix switching system and can accommodate 32x32 ports in a compact 6 RU chassis. The matrix supports MIMO connections, e.g. any of the 32 ports of A or B can be routed to any or all of the 32 ports of B or A. It provides continuous operation over the frequency range of 700 to 2800 MHz, and is ideal for testing wireless communication technologies for 4G (LTE, HSPA+) and beyond. Built-in programmable attenuators provide ease-of-use testing of signal fade and emulation of mobility and handoff testing scenarios. Test system configurations can be remotely reconfigured and consistently reproduced in minutes, eliminating the need for time consuming manual patch panel changes that can lead to RF signal loss and unpredictable results. Utilization of the NEXUS-3 will improve test cycle rotation times and speed new products to market.

### Features & Benefits:

- Designed for use in 2G, 3G, 4G and Wifi test applications
- Wide operating frequency range covers 700 MHz -2800 MHz
- Automate testing process by replacing cumbersome patch panels
- Easily expandable to larger configurations to meet changing test lab environments
- High performance to meet signal specifications in lab environment

*Specifications:	NEXUS-3
<b>Operating Frequency:</b>	700-2800 MHz
<b>Matrix Type:</b>	Passive Bi-directional, Non-blocking
<b>Switching Technology:</b>	Solid State
<b>Return Loss:</b>	15 dB Typical
<b>Insertion Loss:</b>	43 dB Typical, 45 dB Max. @ 2800 MHz & 0 dB Attenuation
<b>Impedance:</b>	50 $\Omega$
<b>IIP3:</b>	> +60 dBm Minimum
<b>P1dB:</b>	> +40 dBm Minimum
<b>Attenuation (at each cross point):</b>	0 to 63 dB Attenuation in 1 dB Steps
<b>RF Connectors:</b>	Type N, QMA, SMA, BNC, TNC
<b>Isolation Port A to Port A:</b>	80 dB Different Port B, 50 dB Same Port B
<b>Isolation Port Port B to Port B:</b>	80 dB Different Port A, 50 dB Same Port A
<b>Isolation Port A to Port A, Different Port B:</b>	100 dB
<b>On/Off Isolation:</b>	100 dB min. , 65 dB min. Normalized to the Insertion Loss of Path
<b>Configuration:</b>	32 A Ports 32 B Ports in a Single 6 RU Chassis
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz
<b>Power Consumption:</b>	50 W
<b>Local Control:</b>	Front Panel Keypad with LCD Display
<b>Remote Control:</b>	Ethernet, Telnet, or TCP/IP Via Customer-Supplied PC, XR Bus for Expansion
<b>Software:</b>	Embedded Web Server and API Protocol
<b>Mechanical:</b>	6 RU (10.5"H x 19"W x 22.25"D) Including Rear Handles
<b>Weight:</b>	119 lbs. Gross (boxed), 95.5 lbs. Net
<b>Certifications:</b>	FCC Part 15

\*Specifications may vary with connector type. See data sheet for specific performance data.

