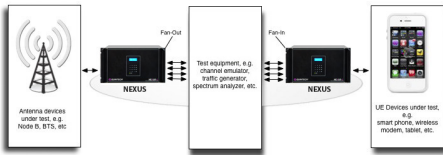


# NEXUS-L

## 32x32 and 16x16 Bi-Directional RF Matrix Switch



NEXUS-L 32x32



### General Description:

The **NEXUS-L** is a passive, bi-directional, full fan-out/splitting, matrix switching system that is available as a 16x16 or 32x32 matrix. Any of the inputs can be routed to any or all of the outputs. It is designed for the Long Term Evolution (LTE) frequency range and is used for automated test systems and general RF signal management in wireless communications test systems for 3G, 4G, WiFi, etc. Each path provides a 0 to 30 dB programmable attenuator that can be used for transceiver and antenna testing.

### Features & Benefits:

- Up to 32 simultaneous connections each with 0 to 30 dB independently controlled attenuators
- Long lasting solid state programmable attenuators with infinite life cycle
- Up to 40 dBm input power with fixed attenuation
- High isolation reduces cross talk between channels
- Integrated splitters allow signals to be shared

Specifications:*	NEXUS-L 16x16	NEXUS-L 32x32
<b>Operating Frequency:</b>	700-3000 MHz	700-2800 MHz
<b>Configuration:</b>	16 Input and 16 Output Ports in a Single 3 RU Chassis	32 Input and 32 Output Ports in a Single 6 RU Chassis
<b>Matrix Type:</b>	Passive Bi-directional, Non-blocking	
<b>Switching Technology:</b>	Solid State	
<b>Fixed Attenuation:</b>	24 dB Max. @ 3000 MHz	30 dB Max. @ 2800 MHz
<b>Impedance:</b>	50 $\Omega$	
<b>OIP3:</b>	60 dBm Min.	60 dBm Min.
<b>P1dB:</b>	40 dBm Min.	40 dBm Min.
<b>Attenuation (at each output):</b>	0 to 30 dB Attenuation in 0.5 dB Steps	
<b>Isolation Input to Input</b>	60 dB Min.	
<b>Isolation Output to Output</b>	60 dB Min., Multiple Inputs 30 dB	60 dB Min., Multiple Inputs 25 dB
<b>Isolation Input to Output</b>	60 dB Min.	
<b>Return Loss:</b>	15 dB Typ.	14 dB Typ.
<b>RF Connectors:</b>	N-Type	
<b>Power Requirements:</b>	100-240 VAC Autoranging, 50/60 Hz	
<b>Power Consumption:</b>	17 W	41 W
<b>Local Control:</b>	Front Panel Keypad with LCD Display	
<b>Remote Control:</b>	Ethernet, TELNET, or TCP/IP Via Customer Supplied PC	
<b>Software:</b>	Embedded Web Server and API Protocol	
<b>Mechanical:</b>	3 RU (5.25"H x 19"W x 20"D) Including Rear Handles	6 RU (10.5"H x 19"W x 22.25"D) Including Rear Handles
<b>Weight:</b>	38.5 lbs. Gross (boxed), 32 lbs. Net	111 lbs. Gross (boxed), 88 lbs. Net
<b>Certifications:</b>	FCC Part 15	

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

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