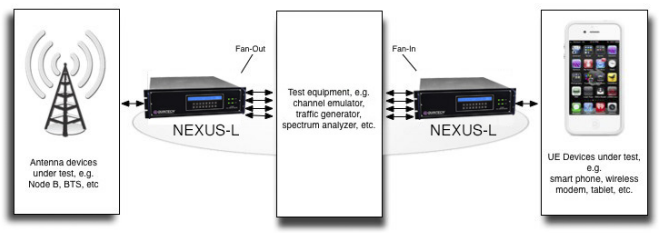
# *NEXUS-L*

## 16x16 LTE RF Matrix Switch


**General Description:**

The NEXUS-L is a passive, bi-directional, partially blocking matrix switch which allows any of the 16 inputs to be routed to any or all outputs. The operating frequency range of the switch covers 700 MHz to 3 GHz. It is designed for use in LTE and 4G test applications. It automates test labs by replacing cumbersome patch panels and can be controlled easily via the front panel or remotely via a web browser interface. The NEXUS-L meets strict specifications required in a lab environment to ensure minimal signal degradation.




**Features & Benefits:**

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

| *Specifications: | NEXUS-L |
|---|---|
| **Operating Frequency:** | 700-3000 MHz |
| **Matrix Type:** | Passive Bi-directional, Partially Blocking |
| **Switching Technology:** | Solid State |
| **VSWR:** | 1.4:1 Typical, 1.5:1 Minimum |
| **Insertion Loss:** | 22 dB Typical, 24 dB Max @ 3000 MHz, 0dB Attenuation |
| **Isolation Input to Input:** | 60 dB Minimum |
| **Isolation Output to Output (same input):** | 30 dB Minimum |
| **Isolation Output to Output (different input):** | 60 dB Minimum |
| **Isolation Input to Output:** | 60 dB Minimum |
| **RF Input:** | +30 dBm (1 watt) |
| **Input IIP3:** | >/= +60 dBm Minimum |
| **Input P1dB:** | >/= +40 dBm Minimum |
| **Attenuation:** | 0-30 dBm Attenuation in 0.25 dB Steps |
| **Switching Time:** | <20 Microseconds |
| **Switching Processing Time:** | 90 Milliseconds Typical |
| **RF Connector:** | N, 50 Ω |
| **AC Power Requirements:** | 100-240 VAC Autoranging, 50/60 Hz |
| **Power Consumption:** | 17 Watts |
| **Local Control:** | Front Panel Keypad with LCD |
| **Remote Control:** | Ethernet, Telnet, TCP/IP via Customer Supplied PC |
| **Software:** | PC Compatible Operating Software and Protocol (Included With System) |
| **Mechanical:** | 3RU (5.25” H x 19” W x 20” D) |
| **Configuration:** | 16 Inputs/ 16 Outputs |
| **Weight:** | 38.5 lbs. Gross (boxed). 32 lbs. Net |
| **Certifications:** | CE, NRTL/TUV, FCC Part 15 |

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