

VAUNIX VMNA-7250-8 – 8-Port Mesh Network Attenuator

Lab Brick® crossbar attenuator system · 700-7250 MHz · Product Datasheet



FREQUENCY-DEPENDENT RF PERFORMANCE

Parameter	Min	Typ	Max
Insertion Loss up to 2 GHz	–	26 dB	–
Insertion Loss up to 4 GHz	–	30 dB	–
Insertion Loss up to 7.25 GHz	–	34 dB	–
Attenuation Range	110 dB	120 dB	–
Input IP3	38 dBm	45 dBm	–

TECHNICAL SPECIFICATIONS

- **Configuration**
8-Port Mesh Network Attenuator
- **Frequency Range**
700 – 7250 MHz
- **Impedance**
50 Ω
- **Attenuation Range**
110 dB typ. / 120 dB max
- **Step Size**
0.1 dB
- **Path Combinations**
28 (nonblocking crossbar)
- **Switching Speed**
2 μ s
- **Max. Input Level**
33 dBm
- **VSWR**
1.5:1
- **RF Connectors**
8x SMA Female (front panel)
- **Power Supply**
USB-powered, +5 VDC / 500 mA
- **Control**
USB HID / Ethernet
- **Software**
Windows/Linux SDK, Windows API DLL
- **Operating Modes**
Fixed / swept / fading profiles
- **Form Factor**
3RU rack, 431.8 x 457.3 x 133.4 mm
- **Weight**
8.6 kg
- **Operating Temp.**
-30 to +50 $^{\circ}$ C
- **Manufacturer**
VAUNIX

APPLICATIONS

<p>Mesh Network Radio Testing Realistic reproduction of multi-node radio network topologies</p>	<p>WiFi 6 & WiFi Repeatable path-loss control for wireless device characterization</p>	<p>LTE / 5G / 6G Cellular link emulation across the 700 to 7250 MHz range</p>
<p>MIMO Fading Simulators Multipoint radio fading profiles for spatial channel emulation</p>	<p>IoT & Zigbee Testing Controlled signal levels for low-power wireless device test</p>	<p>Automated Test Equipment Programmable attenuation for ATE and production test systems</p>