

LDA-203B – High Resolution Digital Attenuator 1-20 GHz

VAUNIX Lab Brick · USB / Ethernet Control · Product Datasheet



TECHNICAL SPECIFICATIONS

- **Frequency Range**
1 – 20 GHz
- **Attenuation Range**
63 dB
- **Step Size**
0.5 dB
- **Insertion Loss**
3.5 / 4.5 / 8 dB typ. (<6 / <10 / <20 GHz)
- **Attenuation Accuracy**
1 dB typ. @ +25 °C
- **Switching Speed**
350 ns
- **Max Input Level**
20 dBm
- **Input IP3**
50 dBm
- **VSWR**
2.0 : 1
- **Impedance**
50 Ω
- **Interfaces**
USB Type-C, Ethernet RJ45, 2x SMA female
- **Size / Weight**
108.5 x 50 x 21.8 mm / 182 g

APPLICATIONS

<p>WiFi, WiFi 6E & WiFi 7 Test Precise level control for multi-standard wireless validation across 2.4 / 5 / 6 GHz bands</p>	<p>5G, LTE & 4G Fading Simulation Programmable attenuation ramps and fading profiles for mobile radio link emulation</p>	<p>Automated Test Equipment (ATE) Native HID USB and Ethernet control for seamless integration into production test systems</p>
<p>Engineering & Development Labs Multi-device setups directly from PC or USB hub for parallel test channels</p>	<p>Path Loss Emulation Range and link budget testing with calibrated 63 dB dynamic range and 0.5 dB resolution</p>	<p>Microwave Radio Fading Simulators User-defined fading profiles with bidirectional ramps for realistic channel emulation</p>