

# Explorer I Cellular Router Specification

Specification	Description
<b>4G LTE-A (CAT 12) Model</b>	
<b>FDD Frequency Bands:</b>	<ul style="list-style-type: none"> <li>B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B21, B25, B26, B28, B29, B30, B32, B66</li> </ul>
<b>TDD Frequency Bands:</b>	<ul style="list-style-type: none"> <li>B38, B39, B40, B41</li> </ul>
<b>Data Rate</b>	<ul style="list-style-type: none"> <li>FDD: DL 600 Mbps, UL 150 Mbps</li> <li>TDD: DL 430 Mbps, UL 90 Mbps</li> </ul>
<b>3G UMTS</b>	<ul style="list-style-type: none"> <li>Frequency Bands: B1, B2, B3, B4, B5, B8, B9, B19</li> <li>Data Rate: DC-HSDPA DL 42 Mbps, HSUPA UL 5.76 Mbps</li> <li>Data Rate: WCDMA DL 384 Kbps, UL 384 Kbps</li> </ul>
<b>4G LTE-A (CAT 6) Model for Americas</b>	
<b>FDD Frequency Bands</b>	<ul style="list-style-type: none"> <li>B2, B4, B5, B7, B12, B13, B25, B26, B29, B30, B66</li> </ul>
<b>TDD Frequency Bands</b>	<ul style="list-style-type: none"> <li>B38, B39, B40, B41</li> </ul>
<b>Data Rate</b>	<ul style="list-style-type: none"> <li>FDD: DL 600 Mbps, UL 150 Mbps</li> <li>TDD: DL 430 Mbps, UL 90 Mbps</li> </ul>
<b>3G UMTS</b>	<ul style="list-style-type: none"> <li>Frequency Bands: B1, B2, B3, B4, B5, B8, B9, B19</li> <li>Data Rate: DC-HSDPA DL 42 Mbps, HSUPA UL 5.76 Mbps</li> <li>Data Rate: WCDMA DL 384 Kbps, UL 384 Kbps</li> </ul>
<b>4G LTE (CAT 4) Model for North America</b>	
<b>FDD Frequency Bands</b>	<ul style="list-style-type: none"> <li>B2, B4, B5, B12, B13, B14, B66, B71</li> </ul>
<b>Data Rate</b>	<ul style="list-style-type: none"> <li>FDD: DL 150 Mbps, UL 50 Mbps</li> </ul>
<b>3G UMTS</b>	<ul style="list-style-type: none"> <li>Frequency Bands: B2, B4, B5</li> <li>Data Rate: DC-HSDPA DL 42 Mbps, HSUPA UL 5.76 Mbps</li> <li>Data Rate: WCDMA DL 384 Kbps, UL 384 Kbps</li> </ul>

<b>Wi-Fi</b>	<ul style="list-style-type: none"> <li>Generation: Wi-Fi 5</li> <li>Frequency Bands: Dual-Band; 2.4 GHz and 5.8 GHz</li> <li>Radios: Dual for Simultaneous 2.4 GHz and 5.8 GHz operation.</li> <li>Operating Modes: Simultaneous Access Point &amp; Client</li> </ul>
<b>Standards and Data Rate</b>	<ul style="list-style-type: none"> <li>2.4 GHz: IEEE 802.11 b/g/n up to 300 Mbps (theoretical)</li> <li>5.8 GHz: IEEE 802.11 a/n/ac up to 867 Mbps (theoretical)</li> </ul>
<b>Ethernet</b>	<ul style="list-style-type: none"> <li>2.4 GHz: IEEE 802.11 b/g/n up to 300 Mbps (theoretical)</li> <li>5.8 GHz: IEEE 802.11 a/n/ac up to 867 Mbps (theoretical)</li> </ul>
<b>GNSS (Global Navigation Satellite System)</b>	<ul style="list-style-type: none"> <li>Simultaneous tracking of multiple constellations: <ul style="list-style-type: none"> <li>GPS: 1575.42 MHz (L1)</li> <li>GLONASS: 1597.5 MHz - 1605.8 MHz (L1)</li> <li>Galileo: 1575.42 MHz (L1)</li> <li>BeiDou: 1561.098 MHz (L1)</li> <li>QZSS: 1575.42 MHz (L1)</li> </ul> </li> </ul>

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<b>Other Interface</b>	<ul style="list-style-type: none"><li>• 1 x SIM Card Slot (Full size, Push-In/Push-Out)</li><li>• 1 x USB 3.0</li><li>• 1 x Push Button Reset</li><li>• 7 x External Antenna Connectors:<ul style="list-style-type: none"><li>• 2 x SMA for Cellular (50 Ohms, Female)</li><li>• 2 x RP-SMA for 2.4G Wi-Fi (50 Ohms, Male)</li><li>• 2 x RP-SMA for 5.8G Wi-Fi (50 Ohms, Male)</li><li>• 1 x SMA for GPS (50 Ohms, Female) – for CAT6 and CAT 4 models</li></ul></li></ul>
<b>Power Input</b>	<ul style="list-style-type: none"><li>• Voltage: 9 VDC to 32 VDC (12 VDC typical)</li><li>• Current: 2.0 A max @ 12 VDC</li><li>• Connector: 4-position locking</li></ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"><li>• Power</li><li>• 2.4 GHz Wi-Fi</li><li>• 5.8 GHz Wi-Fi</li><li>• 4G (Cell)</li><li>• SYS</li><li>• USB</li><li>• Ethernet Link for each port</li></ul>
<b>Operating Environment</b>	<ul style="list-style-type: none"><li>• Temperature:<ul style="list-style-type: none"><li>• Operating: -20°C to 60°C (-4°F to 140°F)</li><li>• Storage: -40°C to 70°C (-40°F to 158°F)</li></ul></li><li>• Humidity: 10% to 90% non-condensing</li></ul>
<b>Physical</b>	<ul style="list-style-type: none"><li>• Dimension: 164 x 137 x 35 mm (6.5 x 5.4 x 1.4 in)</li><li>• Weight: 792 gm (1.74 lb)</li></ul>
<b>Certifications</b>	<ul style="list-style-type: none"><li>• Regulatory: FCC, ISED, CE (CAT12 only)</li><li>• Industry: PTCRB, GCF (CAT 12 only)</li><li>• Carriers: T-Mobile, Rogers, Telus,</li></ul>