Explorer II Cellular Router Specification

Specification	Description
Cellular	

5G NR	• SA/NSA Frequency Bands:
	  • N1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48
	  • N66/n70/n71/n75/n76/n77/n78/n79
	• SA Sub-6GHz Data Rate: DL 2.4 Gbps; UL 900 Mbps
	• NSA Sub-6GHz Data Rate: DL 3.4 Gbps; UL 550 Mbps

4G LTE	• FDD Frequency Bands:
	  • B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71
	• TDD Frequency Bands:
	  • B38, B39, B40, B41, B42, B43, B46 (LAA), B48
	• Data Rate: DL (Cat 19) 1.6 Gbps, UL (Cat 18) 200 Mbps

3G UMTS	• Frequency Bands: B1, B5, B8 • Data Rate: DC-HSDPA DL 42 Mbps, HSUPA UL 5.76 Mbps • Data Rate: WCDMA DL 384 Kbps, UL 384 Kbps

Wi-Fi	• Generation: Wi-Fi 6 • Frequency Bands: Dual-Band; 2.4 GHz and 5.8 GHz • Radios: Dual for Simultaneous 2.4 GHz and 5.8 GHz operation. • Operating Modes: Simultaneous Access Point & Client
Standards and Data Rate	• 2.4 GHz: IEEE 802.11 b/g/n/ax, up to 574 Mbps (theoretical) • 5.8 GHz: IEEE 802.11 a/n/ac/ax, up to 2402 Mbps (theoretical)
Ethernet	• WAN Port (1 x): 10/100/1000 Mbps, Auto MDI/MDIX • LAN Ports (4 x): 10/100/1000 Mbps, Auto MDI/MDIX • Standards: IEEE 802.3, 802.3u, 802.ab

GNSS (Global Navigation Satellite System)	• Simultaneous tracking of multiple constellations:
	  • GPS: 1575.42 MHz (L1), 1176.45 MHz (L5)
	  • GLONASS: 1597.5 MHz - 1605.8 MHz (L1)
	  • Galileo: 1575.42 MHz (L1), 1176.45 MHz (L5)
	  • BeiDou: 1561.098 MHz (L1)
	  • QZSS: 1575.42 MHz (L1), 1176.45 MHz (L5)

Other Interface	• 2 x SIM Card Slots (Nano size, Push-In/Push-Out)
	• 1 x USB 2.0
	• 1 x Push Button Reset
	• 8 x External Antenna Connectors:
	  • 4 x SMA for Cellular (50 Ohms, Female)
	  • 2 x RP-SMA for 2.4G Wi-Fi (50 Ohms, Male)
	  • 2 x RP-SMA for 5.8G Wi-Fi (50 Ohms, Male)

Power Input	• Voltage: 9 VDC to 32 VDC (12 VDC typical) • Current: 2.0 A max @ 12 VDC • Connector: 4-position locking and DC Jack 5.5 x 2.1mm
LED Indicators	• Power • 2.4 GHz Wi-Fi • 5.8 GHz Wi-Fi • 5G (Cell) • Ethernet Link for each port

Operating Environment	• Temperature :
	  • Operating: -20°C to 50°C (-4°F to 122°F)
	  • Storage: -40°C to 70°C (-40°F to 158°F)
	• Humidity: 10% to 90% non-condensing

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Physical	• Dimension: 190 x 122 x 39 mm (7.5 x 4.8 x 1.5 in) • Weight: 780 gm (1.72 lb)
Certifications	• Regulatory: FCC, ISED, CE • Industry: PTCRB, GCF • Carriers: T-Mobile, Rogers, Telus, Bell