TECHNOLOGY: 5G sub-6 GHz, 4G Cat 20

Inseego Wavemaker™ FX4200

Key tech specs

- 5G and Cat 20 LTE
- High performance RF and internal antenna design
- Wi-Fi 7 connects up to 256 devices
- (2) 2.5 GbE RJ45 ports
- (2) 1 GbE RJ45 ports
- 4FF Dual-SIM
- (4) Optional external antenna SMA ports
- Rechargeable battery backup

Target Customers

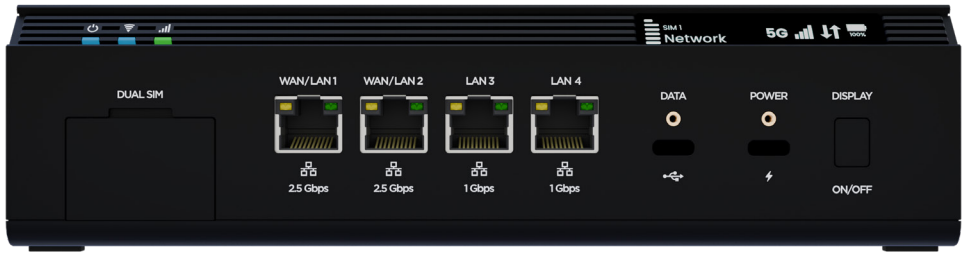
- SMB
- Mid-market enterprise
- Government
- Education
- Retail
- Remote/home office

Key software specs

- Inseego Connect remote management
- On-device speed test
- Automatic carrier selection
- Zero-touch deployment
- IPSec VPN
- Data usage monitoring
- FIPS 140-3 Open SSL
- Inseego mobile app
- Network slicing*
- Seamless WAN failover and failback with dual-SIM/dual-standby*

Customer challenges

- Reliable internet backup solutions
- High-speed connectivity with low latency
- Maintaining business continuity
- Managing operating expenses
- IT managed, remote employee connectivity







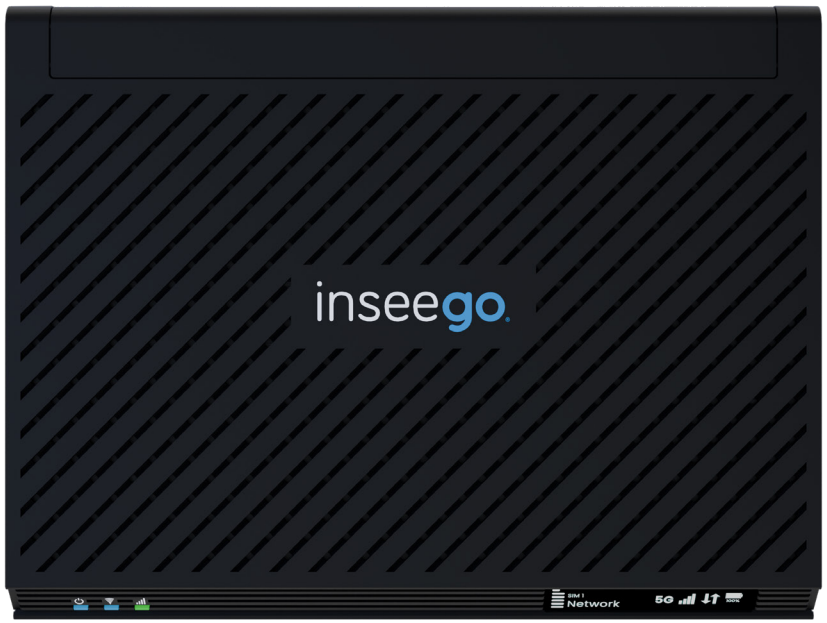


*Future software update

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FX4200 Dimensions and Views

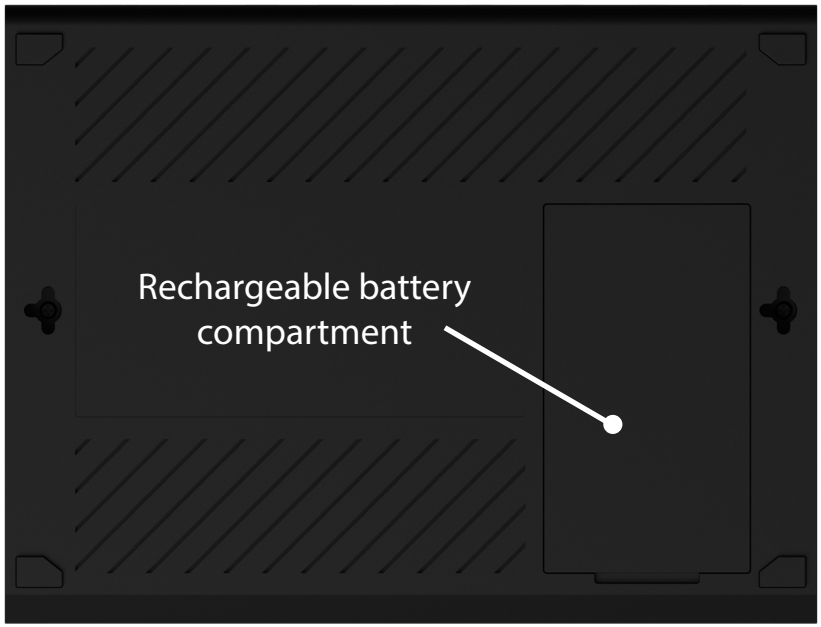
8.3 inches (210 mm)



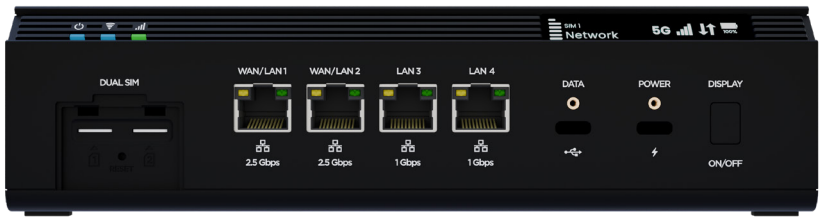
5.5 inches (140 mm)

Top

Weight: 51.9 oz (with battery)



Bottom



2.1 inches (54 mm)

Front



Back

Inseego FWA Competitive Matrix

	 FX4200	 RUTX50	 B One 5G	 G4AR/SE	 Digi EX50	 E100	 E300
Product name	Wavemaker 5G cellular router FX4200	Teltonika RUTX50	Peplink B One 5G	Arcadyan G4AR	Digi EX50 5G Cellular Extender	Ericsson E100 5GC	Ericsson E300
Category	Indoor wireless router	Industrial Router	SOHO/Small Business router	Indoor wireless router	Enterprise cellular extender/router	Enterprise router	Enterprise router
Connectivity	2x WAN/LAN 5 GbE 2x WAN/LAN 1 GbE 1x USB 3.1 Type-C data/power Full AP with MESH 4x ext antenna connectors	5× Gigabit Ethernet (1× configurable WAN/LAN) 1× USB port dual-band Wi-Fi 5 dual-SIM auto-failover backup WAN	2× Ethernet WAN 4× Ethernet LAN 1× USB-C WAN dual-band Wi Fi 6, dual-SIM (physical + eSIM) 4× external cellular SMA connectors	2x LAN 2x USB Type-C (one for power, one for data) 4x Ext antenna connectors	2x 2.5GbE RJ4 1x RS-232 console port dual-SIM slots active PoE+ or DC IN power 4x external SMA connectors	5x LAN/WAN 1x USB Type-A 2x Ext antenna connectors	5x LAN/WAN 1x USB Type-A 1X SFP+ 4x Ext antenna connectors
Cellular technology	3GPP release 17 and 18 capable 5G sub-6 GHz 5G SA + NSA NSA: 5X CA DL, 3X CA UL 5G SA: 3X CA DL, 2X CA UL 5G uplink MIMO across TDD & FDD Network slicing (SA only) LTE fallback	3GPP release 16 capable 5G sub-6 GHz 5G SA + NSA NSA: 4× CA DL, 2× CA UL SA: 4× CA DL, 2× CA UL 5G uplink MIMO across TDD & FDD LTE fallback	3GPP release 15/16 capable 5G sub 6 GHz SA + NSA NSA: at least 2× CA DL LTE fallback	3GPP release 15 5G sub-6 GHz 5G NSA LTE fallback	3GPP release 15 capable 5G sub-6 GHz 5G SA + NSA LTE fallback	3GPP release 15 capable 5G sub-6 GHz 5G SA + NSA LTE fallback	3GPP release 12 capable 5G sub-6 GHz 5G SA + NSA LTE fallback
5G sub-6 bands	n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48, n66, n70, n71, n77 (ext 2A), n78 (ext 2A)	n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n77, n78	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	n25, n41, n48, n66, n71, n77	n1, n2, n3, n5, n7, n8, n12, n20, n25, n28, n38, n40, n41, n48, n66, n71, n77, n78, n79	n1, n3, n7, n8, n20, n28, n38, n41, n77, n78, n79	n1, n3, n7, n8, n20, n28, n38, n41, n77, n78, n79
4G LTE bands	2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 29, 30, 38, 41, 42, 43, 46, 48, 66, 70, 71	1, 3, 5, 7, 8, 20, 28, 32	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 48, 66, 71	2, 4, 5, 12, 25, 48, 66, 71	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 48, 66, 71	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 20, 25, 26, 29, 30, 38, 39, 40, 41, 42, 43, 46, 48, 66	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 20, 25, 26, 29, 30, 38, 39, 40, 41, 42, 43, 46, 48, 66
Chipset	SDX72	Quad Core ARM Cortex A7 @ 717 MHz processor (Qualcomm)	SDX62	Mediatek T-750 Fibocom cellular modem module	ARM Cortex A53 quad core 1.8 GHz application processor	SDX62	SDX55
4G	4G LTE Cat-20	4G LTE Cat-20	4G LTE Cat-20	4G LTE Cat-18	4G LTE Cat-20	4G LTE Cat-19	4G LTE Cat-18
MIMO	4x4 MIMO	4x4 MIMO	4x4 MIMO	4x4 MIMO	4x4 MIMO	4x4 MIMO	4x4 MIMO
UL/DL sppeds	DL: 3.6 Gbps UL: up to 200 Mbps	DL: up to 3.3 Gbps UL: up to 600 Mbps	DL: 3.4 Gbps UL: 900 Mbps	DL: around 200-600 Mbps UL: ~ 100 Mbps	DL: up to ~1.4 Gbps (5G) UL: up to ~200 Mbps	DL: Up to 150 Mbps (LTE) DL: Up to 50 Mbps (LTE)	DL: Up to 2 Gbps (LTE-A Cat 20) UL: Up to 316 Mbps (LTE-A Cat 20)
Dual SIM	2x SIM card slots (4FF Nano-SIM), 1x eSIM *Dual SIM dual standby (DSDS)	2× SIM slots (Mini SIM), auto failover	2× Nano-SIM + eSIM	1x SIM card slots (4FF Nano-SIM),	2x SIM card slots (2FF Mini-SIM) auto-failover	2x SIM card slots (4FF Nano-SIM)	2x SIM card slots (4FF Nano-SIM)
Cellular Antenna Type	omni-directional internal antenna	External antennas only	External antennas only	omni-directional internal antenna	external antennas only (4x SMA); Wi Fi uses internal antennas	external antennas only	Wi-Fi only omni-directional internal antennas
Power Class	PC3: all bands PC2: B2, B66, n41, n77 PC2 : n12, n25, n48, n71	PC3: all bands PC2: n41, n77, n78, n71	PC3: all bands PC2: n41, n77, n78, n71	PC3: all bands	PC3: all bands	PC3: all bands	PC3: all bands
Wi-Fi Technology	Wi-Fi 7 with 2x2 MU-MIMO Connects up to 256 Wi-Fi Enabled Devices Mesh with wired and wireless local backhaul	Wi Fi 5 (802.11ac Wave 2), dual-band	Wi Fi 6 (802.11ax) dual-band 2×2 MIMO	Wi-Fi 6 (802.11ax) Connects up to 32 Wi-Fi Enabled Devices	Wi Fi 6 (802.11ax) dual-band 2x2 MIMO	Wi-Fi 5 (802.11ac) dual-band, dual-concurrent connectivity	Wi-Fi 6 (802.11ax)
Ports	2x 2.5GbE RJ45 2x 1GbE RJ45 1x USB 3.1 type C power/data 1x USB PD Type-C power 1x 4FF SIM	5× LAN/WAN 1× USB 2× 2FF SIM	2× WAN 4× LAN (1 GbE) 1× USB C dual-SIM slot	2X LAN 2x USB Type-C (one for power, one for data) 1x 4FF SIM	2x 2.5GbE RJ45 1x RS 232 console 2x SIM slots	5x LAN/WAN 1x USB Type-A 2x Ext antenna connectors 2x 4FF SIM	5x LAN/WAN 1x USB Type-A 1X SFP+ 4x Ext antenna connectors 2x 4FF SIM
Size	210 x 140 x 54 mm	132 × 44.2 × 95.1 mm	262 × 161 × 33.5 mm	228 x 180 x 76 mm	158 × 158 × 35 mm	120.5 x 81 x 24.5 mm	220 x 130 x 45 mm
Weight	850 g	533 g	726 g	880 g	600 g	350 g	860 g
Power Source	USB C (from AC adapter or powered USB hub/port) Optional POE to USB C adapter available	9–50 VDC via 4 pin connector or passive PoE (via LAN1)	10–30V DC (AC adapter included)	AC power adapter 100 - 240V, 3A @ DC 15V, 50/60Hz	Active PoE+ (802.3at) or 19V DC IN (50W PSU included)	12V DC power supply w/ AC/DC adapter	12V DC power supply w/ AC/DC adapter
External Antennas	4x external SMA ports (optional)	4× external SMA ports (cellular/Wi Fi/GNSS)	4× SMA cellular, 2× RP-SMA Wi-Fi	4x external SMA ports (optional)	4x external SMA ports	2x external SMA ports	4x external SMA ports

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