



H A R D W A R E

Processor	Elkhart Lake / Series X6000e / Intel Pentium and Intel Celeron
Onboard storage	256 GB maximum
Onboard RAM	8 GB maximum
Dimensions w x d x h	151.7 mm x 108.7 mm x 16.95 mm
Weight	Dual modem 375 g Single modem 365 g
Operating temperature	5 °C to 35 °C
Humidity	5 % to 85 %
Power supply	USB-C
Integrated cellular	Up to 2 x 5G, depending on model, X65 Release 16
SIM card slot	Up to 2 x dual nano SIM, depending on model
eSIM support	eUICC with 2FF/3FF/4FF
Ethernet (WAN and/or LAN)	1 x 10/100/1000/2500 Mbps USB-C
Wi-Fi (WAN and/or LAN)	WiFi 6E 2.5 GHz + 5 GHz + 6 GHz DBS
USB connection	1 x USB-C Power-in 1 x USB-C Client-in 1 x USB-C Ethernet-in
Battery adapter	Standard: 47 Wh, approx. 6-hour operating time

O P T I O N A L A D D - O N S

Antenna adapter for cellular	4 x SMA female via external adapter
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PERFORMANCE

Theoretical DL Rate	5.1 Gbps + 5.1 Gbps, depending on model
Theoretical UL Rate	900 Mbps + 900 Mbps, depending on model
LTE category	DL CAT 20 / UL CAT 18
LTE maximum DL/UL speed	2 Gbps/211 Mbps
Phantom VPN encryption	TBD
IPSec VPN encryption	TBD
WiFi Theoretical Data Rate	3 Gbps
WiFi Protocol	a/b/g/n/ac/ax
WiFi Frequency	2.4 GHz/5 Ghz/6 Ghz

SUPPORTED BANDS

5G FR1 (NSA)	n1/n2/n3/n5/n7/n8/n20/n25/n28/n30/n38 n40/n41/n48/n66/n71/n75/n77/n78/n79 NSA default off: n12/n13/n14 n18/n26/n29/n48/n75/n76
5G FR1 (SA)	n1/n2/n3/n5/n7/n8/n20/n25/n28/n30/n38 n40/n41/n48/n66/n71/n75/n77/n78/n79 SA default off: n12/n13/n14 n18/n26/n29/n48/n75/n76
5G F1 NR subcarrier spacing	15 kHz (FDD), 30 kHz (TDD)
5G FR1 Max QAM order supported	256 QAM DL/UL
LTE	B1/B2(B25), B3/B4(B66), B26(B5, B18, B19), B7/B8/B12(B17), B13/B14/B20/B28/B29 (DL), B30/32(DL), B34/B38/B39/B40/B41/ B42/B43/B46(LAA), B48(CBRS), B66/B71
WCDMA	B1/B2/B4/B5(B6, B19) B8 for EU and APAC regions only
4 x 4 MIMO DL	5G FR1: n1/n2/n3/n7/n25/n30/n38/n40/ n41/n48/n66/n75/n77/n78/n79 4G: B1/B2/B3/B4/B7/B25/B30/B38/ B39/B40/B41/B42/B43/B48/B66
2 x 2 MIMO UL	5G FR1: n38/n41/n48/n77/n78/n79

CARRIER AGGREGATION

FN990A40 CA specification	https://tinyurl.com/25vtj2hf
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