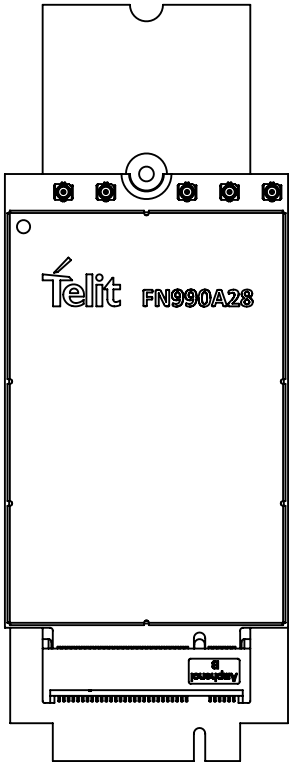
NWK500

OnLogic 5G and Gigabit LTE Embedded Cellular Modem

The OnLogic NWK500 is an embedded cellular modem powered by the Telit FN900A28 module. Based on the Qualcomm Snapdragon X62 chipset, this high-performance, industrial-grade 5G modem is designed for demanding applications requiring fast, reliable cellular connectivity. It supports a wide range of 5G and LTE bands, and offers (upon request) GNSS capabilities for location services. Ideal for IoT devices, industrial routers, video surveillance, and public safety applications, this embedded modem is designed to bring high-powered 5G connectivity to your OnLogic device.

Key Features

- **5G sub-6 FDD and TDD:** Supporting global deployments. 5G NSA: 3.4 Gbps DL / 0.46 Gbps UL. 5G SA: 2.5 Gbps DL / 0.90 Gbps UL.
- **Gigabit LTE Cat-19:** Peak download speeds up to 1600 Mbps and upload speeds up to 300 Mbps.
- **Global LTE Band Support:** Extensive band coverage for worldwide deployment.
- **CBRS Support:** Enables private LTE networks in the 3.5 GHz band.
- **USB 3.0 and PCIe Interfaces:** Flexible integration options.
- **Industrial Temperature Range:** -40°C to 85°C.
- **Mobile Software Management:** Firmware Over-The-Air (FOTA).
- **Embedded Software:** Secure boot, Pre-certified firmware.
- **OS Support:** Windows 10, Windows 11, Linux.
- **Dual SIM:** Dual SIM Single Standby (DSSS) support.
- **3G HSPA+ Rel. 8:** Fallback to legacy networks.



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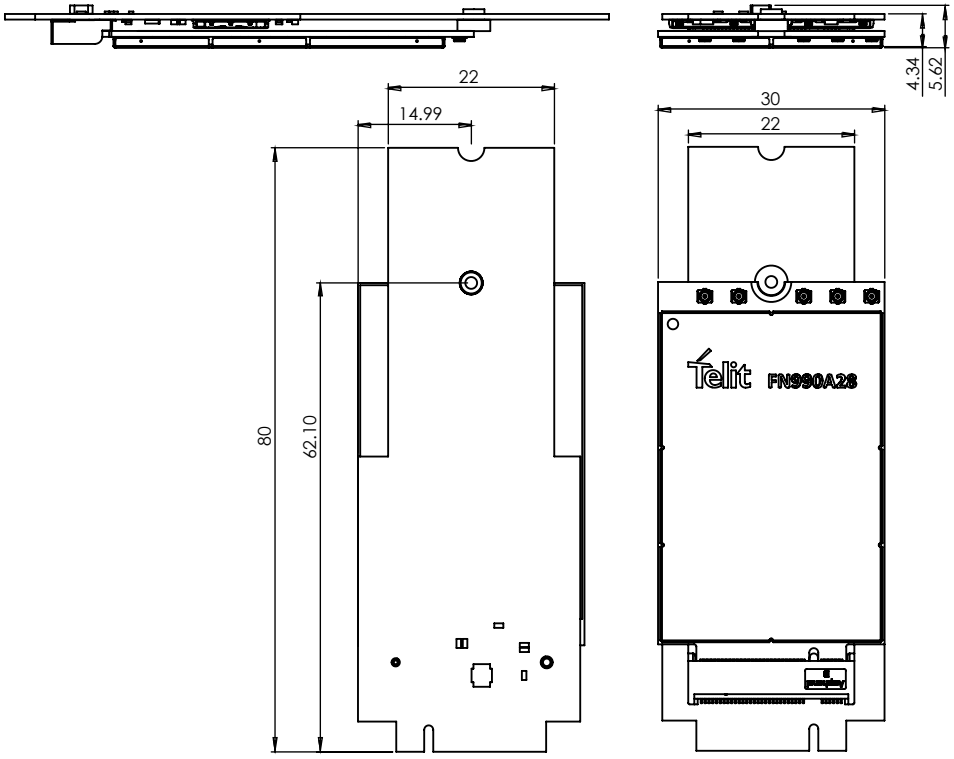
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Feature	Specification
5G FR1 Bands (120 MHz, 2CC CA DL)	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n71, n75, n76, n77, n78, n79
LTE Bands	B1, B2(B25), B3, B4(B66), B26(B5, B18, B19), B7, B8, B12(B17), B13, B14, B20, B28, B29(DL), B30, B32(DL), B34, B38, B39, B40, B41, B42, B43, B46(LAA), B48(CBRS), B66, B71
MIMO	**4x4 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 **2x2 MIMO UL** 5G FR1: n38/n41/n48/n77/n78/n79
Interfaces	USB 3.0, PCIe Gen2
SIM Interface	1.8V/3V USIM
Antenna Connectors	4 x LTE/sub-6 + 1 x GNSS
Operating Voltage	3.3V
Operating Temperature	-40°C to 85°C
Regulatory	FCC, IC, CE, PTCRB, RoHS
Firmware Updates	FOTA Support

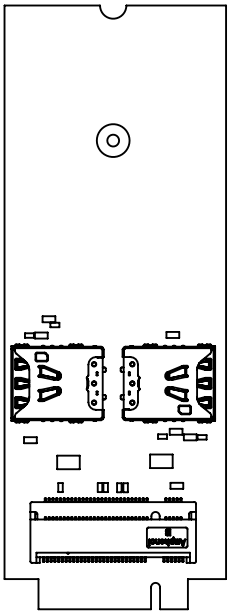
NWK500 Dimensional Drawings

5G Modem & Carrier Card

all measurements in mm



VIEW OF CARRIER CARD WITHOUT MODEM



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