LN920Ax-WW

High-Speed LTE M.2

LTE 600/150|3G DC-3G/HSPA+ 42.0/5.76 - M.2 (LN920A12-WW)

LTE 400/150|3G DC-3G/HSPA+ 42.0/5.76 - M.2 (LN920A13-WW)

LTE 300/50|3G DC-3G/HSPA+ 42.0/5.76 - M.2 (LN920A6-WW)

High-Speed LTE Data Card

The LN920 M.2 data card is part of the family of Telit high-speed data cards. Designed in M.2 (NGFF) form factor, it is the natural evolution toward 5G technology.

The LN920 is available as LTE Category (Cat) 12 (600 Mbps peak data rate DL, 150 Mbps UL), Cat 13 (400 Mbps peak data rate DL, 150 Mbps UL) and Cat 6 (300 Mbps peak data rate DL, 50 Mbps UL). This data card supports a broad set of LTE frequency bands and carrier combinations and includes 3G/HSPA+ legacy technology and a GNSS receiver, making it ideal for worldwide deployments.

Compatible with 3GPP Release (Rel) 12, it is certified for global deployments across EMEA, the Americas and APAC, including specific MNO certifications in regions requiring them like APAC and NA.

The LN920 series is designed for global use and suitable for both high-performance industrial and consumer applications, including fixed wireless access, enterprise routers and gateways, indoor and outdoor CPE, and mobile computing (e.g., notebooks, tablets).

Key Benefits

- Standard M.2 (NGFF) form factor
- Same form factor and pinout available as 4G Cat 12, Cat 13 and Cat 6
- 3G/HSPA+ Rel 8 for fallback to legacy networks
- Broad frequency band support, ideal for worldwide deployments and private LTE networks
- Certified with leading MNOs
- Single-side printed circuit board for optimal heat dissipation
- High-speed USB 3.0 port
- Support of up to 3xCA DL (Cat 12)
- Up to three independent firmware images onboard selectable at boot to support various network operator requirements
- State-of-the-art GNSS receiver with separate RF connector
- Internal GNSS L1 LNA, allowing the use of less expensive passive antennas and lowering the total cost of ownership
- Advanced security features: SELinux, secure boot
- Full industrial operating temperature range
- Drivers support: Windows 11, Linux
- 2 x 2 MIMO

AVAILABLE FOR

NA

LATAM

EMEA

APAC

LN920Ax-WW

High-Speed LTE M.2

Variants

	LN920A12-WW	LN920A13-WW	LN920A6-WW
LTE Bands	1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 38, 39, 40, 41, 42, 43, 48 (CBRS), 66, 71		
WCDMA Bands	1, 2, 4, 5, 6, 8, 9, 19		
Category	12	13	6
Maximum DL Throughput [Mbps]	600	400	300
Maximum UL Throughput [Mbps]	150	150	50
DL CA	Up to 3xCA	Up to 2xCA	Up to 2xCA

Product Features

- M.2 form factor
- Chipset: Qualcomm® SDX12
- Available as Cat 12 (LN920A12-WW), Cat 13 (LN920A13-WW) or Cat 6 (LN920A6-WW)
- 3GPP Rel 12 compliant
- Control via AT commands according to 3GPP
- TS27.005, 27.007 and custom AT commands
- SIM application toolkit 3GPP TS51.014
- SMS over SG and IMS
- Firmware over-the-air (FOTA) update
- Embedded GNSS (GPS, GLONASS, Beidou, Galileo) receiver with dedicated RF connector
- Dual-SIM interface (dual-SIM, single standby)
- Secure boot to prevent unauthorized code from being executed on the modem
- SELinux (Security-Enhanced Linux) architecture to guarantee maximum data protection

Hardware and Electrical Specifications

- Dimensions: 30 x 42 x 2.4 mm
- GPIOs
- USB 3.0
- Two 1.8 V/3 V SIM interfaces
- Operating temperature range: -40 °C to +85 °C (operating and storage)
- Supply voltage:
  - 3.3 V nominal
  - Range: 3.1–3.6 V
- Windows 11
- Linux

Approvals

- Regulatory: Anatel*, CCC, CE/RED, FCC, IC, JATE/TELEC, NCC
- Industry standard: GCF, KC, PTCRB, Spark NZ*
- MNOs: AT&T, Docomo, FirstNet, KDDI, NTT, RCM, T-Mobile US, Verizon

*LN920A12 only

Data Throughput

- Data-only module
  LN920A12-WW:
  - 3GPP Rel 12, 600 Mbps DL, 150 Mbps UL
  - LTE FDD/TDD, up to 3xCA DL (600 Mbps, 60 MHz)
  - LTE FDD/TDD, up to 2xCA UL (150 Mbps, 40 MHz)
  - LTE 256-QAM DL, 64-QAM UL

  LN920A13-WW:
  - 3GPP Rel 12, 400 Mbps DL, 150 Mbps UL
  - LTE FDD/TDD, up to 2xCA DL (400 Mbps, 40 MHz)
  - LTE FDD/TDD, up to 2xCA UL (150 Mbps, 40 MHz)
  - LTE 256-QAM DL, 64-QAM UL (150 Mbps, 40 MHz)

  LN920A6-WW:
  - 3GPP Rel 12, 300 Mbps DL, 50 Mbps UL
  - LTE FDD/TDD, up to 2xCA DL (300 Mbps, 40 MHz)
  - LTE 64-QAM DL, 16-QAM UL

- 3G DC-HSPA+ legacy technology
- LwM2M support

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