

LN920A6-NA

High-Speed LTE M.2

LTE 300/50 - M.2



High-Speed LTE Data Card

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

The LN920A6-NA is available as LTE Category 6 (300 Mbps peak data rate DL, 50 Mbps UL). This data card supports a set of LTE frequency bands and carrier combinations.

Compatible with 3GPP Release (Rel) 12 used by main MNOs in North America, it is certified with the main MNOs in US and Canada.

The LN920A6-NA series is 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
- Broad frequency band support
- Certified with leading North America MNOs
- Single-side printed circuit board for optimal heat dissipation
- High-speed USB 3.0 port
- State-of-the-art GNSS receiver with separate RF connector
- 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



LN920A6-NA

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Variants

LN920A6-NA	
LTE Bands	2, 4, 5, 7, 12, 13, 25, 26, 29, 30, 41, 66
Category	6
Maximum DL Throughput [Mbps]	300
Maximum UL Throughput [Mbps]	50
DL CA	Up to 2xCA

Product Features

- M.2 form factor
- Chipset: Qualcomm® SDX12
- 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
- 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

Approvals

- Regulatory: FCC, IC
- Industry standard: PTCRB
- MNOs: Rogers, Verizon

Data Throughput

- LN920A6-NA:
 - 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
- LwM2M support

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