

# LM960A18

LTE Cat 18 | PCI Express

LTE 1.2/150 | DC-HSPA+ 42.075.76



## Gigabit LTE Data Card

The LM960A18 Mini PCI-Express (mPCIe) data card delivers high-speed data rates via LTE Advanced Pro [LTE-A Pro] and offers a cellular connection for products in network appliance environments. This data card is well suited for products that demand high throughput to provide the most advanced 4G LTE connectivity, ensuring a rich and seamless user experience.

Based on LTE Category 18 (Cat 18), the LM960A18 mPCIe data card achieves download rates up to 1.2 Gbps with 4x4 MIMO +3 CA and 1 GBPS with 2x2 MIMO +5 CA. This product supports multiple RF bands and band combinations to accommodate global deployments.

## Key Benefits

- Standard mPCIe data card form factor
- LTE Cat 18: Exceptional high speed with data rates of up to 1.2 Gbps download and 150 Mbps upload
- Support of UL at 2xCA and up to 5xCA on DL with 4x4 MIMO, 256QAM
- Ample LTE frequency band support
- Up to four independent firmware images selectable at boot to support different network operator requirements
- 3G fallback technology
- Private LTE support (including CBRS/OnGo)

AVAILABLE FOR

EMEA

NORTH AMERICA

APAC



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## Product Features

- Form Factor: mini-PCI express card type (mPCIe) revision 2.1
- Chipset: Qualcomm SDX20
- Data only module
- LTE Cat. 18 3GPP Rel. 12
  - Up to 1.2 Gbps DL w/4x4 MIMO +3 CA
- HSDPA Cat 24, HSUPA Cat 8
- 4x4 MIMO on two contiguous carriers plus 2x2 MIMO on third carrier
- LAA up to 60 MHz
- UL 2xCA
- DL 5xCA
- USB drivers for Windows 7, 8.x, 10 and Linux (Kernel 4.10)
- Full GNSS support: GPS, GLONASS, Galileo, Beidou

## Hardware and Electrical Specifications

- Dimensions: 50.95 x 30 x 2.8mm
- USB 2.0/3.0
- Two selectable SIM cards
- GPIOs
- Operating temperature range:
  - 40 °C to +85 °C
- Storage temperature range:
  - 40 °C to +85 °C
- Operating voltage:
  - 3.1V - 3.6V (Typical 3.3V)

## RF Bands

- LTE FDD: B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(B17), B13, B14(FirstNet), B20, B28, B29, B30, B32, B71
- LTE TDD: B38, B39, B40, B41, B42, B43, B46, B48 (CBRS/OnGo)
- 3G B1, B2, B4, B5(B19), B8, B9

## Approvals

- FCC/IC, PTCRB 9 (North America)
- FCC Part 96 CBRS (USA)
- CE, GCF (Europe)
- AU IC-Tick (Australia)
- Network carriers: AT&T, FirstNet, Telstra\*, NTT Docomo, T-Mobile US, Verizon

*\*Certified as Cat 16 device*

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