

NEOWAY N75 PCIe

LTE Cat 4 module



Key Benefits

- LTE Cat 4 module optimized for M2M and IoT applications
- N75 PCIe can be used in most regions including North-America, Europe, Japan where LTE networks are deployed.
- Feature refinements: supports TCP/IP, MQTT, and FOTA
- N75 PCIe is an optimal option for energy metering, telematics, industrial router, industrial PAD, video surveillance, environmental monitoring, and so on.



Qualcomm chipset

Qualcomm MDM9x07



Operating temperature

-40°C~+85°C, Industrial grade



Various network protocols

TCP/IP/UDP/MQTT IoT protocols



LGA package, small size

Reduce product area
Excellent performance of ESD



Technical support

Reference designs, evaluation kits
Timely support via emails, calls, and IM Field support

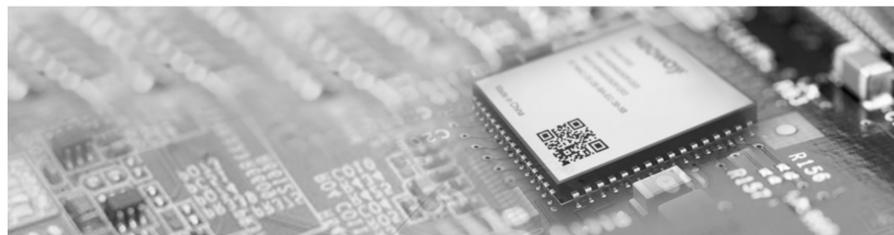
Product Description

N75 PCIe is an LTE Cat 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel. 11 LTE technology, it delivers 150Mbps downlink and 50Mbps uplink data rates.

N75 PCIe supports Qualcomm® IZat™ location technology Gen8C Lite (GPS, GLONASS, BDS, Galileo and QZSS). The integrated GNSS greatly simplifies product design, and provides quicker, more accurate and more reliable positioning capability.

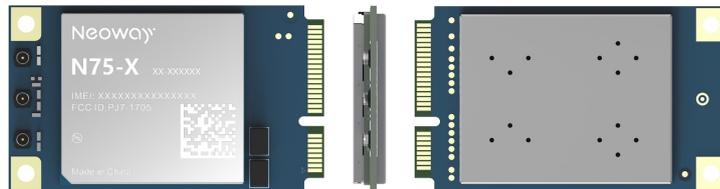
With low power consumption, ultra wide operating temperature range, excellent RF performance, integration of Internet protocols, industry-standard interfaces, and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10, Linux, Android), N75 PCIe is an optimal option for energy metering, telematics, industrial router, industrial PAD, video surveillance, environmental monitoring, and so on.

N75 PCIe series can be used in most regions including North-America, Europe, Japan where LTE networks are deployed. It also supports EDGE and HSPA+ networks for application in areas not covered by LTE networks.



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Specifications

N75-NA (North America)	LTE FDD: B2/B4/B5/B7/B12/B13/B25/B26/ B66/B71 UMTS: B2/B4/B5 GSM/GPRS: 850/1900 MHz
N75-EA (EMEA)	LTE FDD: B1/B3/B5/B7/B8/B20/B28 LTE TDD: B38/B40/B41 UMTS: B1/B5/B8 GSM/EGPRS: 900/1800 MHz
N75-LA (Latin America)	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B10/B28/ B66 LTE TDD: B38/B40/B41 UMTS: B1/B2/B4/B5/B8 GSM/GPRS: 850/900/1800/1900 MHz
N75-JP* (Japan)	LTE FDD: B1/B3/B8/B18/B19/B26/B28 LTE TDD: B41 UMTS: B1/B6/B8/B19
Supply voltage	3.0 to 3.6 V (DC)
Power consumption	< 4 mA @ Sleep < 15 mA @ Idle mode
Operating temperature	-40°C to +85°C
Dimensions	51.0 mm x 30.2 mm x 5.3 mm (± 0.1 mm)
Package	Mini PCIe
Weight	11.2 g ± 0.2 g
AT commands	3GPP TS 27.007, 27.005 Neoway enhanced AT Commands

Interfaces

POWER, PWRKEY_N, RESET_N
USB2.0, UART
PCM (EA support)
1.8 V/3.0 V USIM interface
LED
Cellular and GNSS antenna interfaces

Features

Data rate	LTE: Max. 150 Mbps (DL)/50 Mbps (UL) UMTS: Max. 42 Mbps (DL)/5.76 Mbps (UL) EDGE: Max. 236.8 kbps (DL/UL)
SMS	TEXT/PDU Point to Point/Cell Broadcast
Network protocols	TCP/UDP/MQTT/PPP/NTP/FTP /HTTP/ HTTPS/SSL/TLS
Firmware upgrade	Via USB or FOTA
USB Driver	Windows 7/8/8.1/10 Linux 2.6~4.4 Android 4.x/5.x/6.x/7.x/8.x
RIL Driver	Android 4.x/5.x/6.x/7.x/8.x

Enhanced Features

PCM/I2C Interface for Voice Function (-EA support)
Differential Firmware Over-the-Air (DFOTA)
GNSS:
- GPS, GLONASS, BDS, Galileo and QZSS
- Receiver Type
GPS L1/BDS B1/GLONASS G1/Galileo E1/QZSS L1
- TTFF (Open air with GPS only)
Cold starts: <35s
Hot starts: <2s
- Sensitivity:
Acquisition: -149 dbm (GPS)/-148.5 dbm (GLONASS)
Tracking: -158.7 dbm (GPS)/-158.2 dbm (GLONASS)
- Position Accuracy (Open air): <3 m (CEP50)
- Navigation update rate: 1 Hz

Certification Approvals

CE, RoHS, FCC, PTCRB, AT&T, T-Mobile, GCF, Anatel, Verizon*, JATE*, TELEC*

* indicates in development

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