

# NEOWAY N75

## LTE Cat 4 module



### Key Benefits

- LTE Cat 4 module optimized for M2M and IoT applications.
- N75 can be used in most regions including North-America, Europe, Japan where LTE networks are deployed.
- Feature refinements: supports LWM2M, CSD and FOTA.
- N75 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 instant messages  
Field support

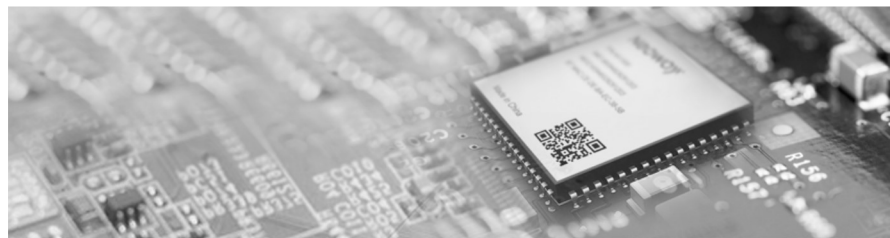
### Product Description

N75 is an LTE Cat 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel. 10 LTE technology, it delivers 150 Mbps downlink and 50 Mbps uplink data rates.

N75 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 position fix.

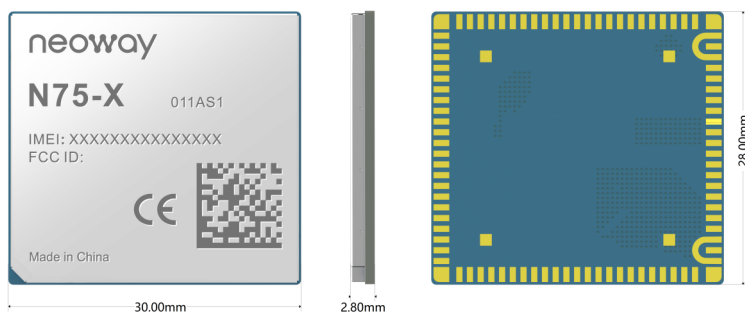
With low power consumption, ultra wide operating temperature range, excellent RF performance, integration of Internet protocols, industry-standard interfaces, and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10, Linux, Android), N75 is an optimal option for energy metering, telematics,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

N75 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	3.3 to 4.3 V (DC), Typical: 3.8 V
Power consumption	< 4mA @ Sleep < 15mA @ Idle mode
Operating temperature	-40°C to +85°C
Dimensions	30.0 mm x 28.0 mm x 2.8 mm (± 0.1 mm)
Package	100-pin LGA, 1.0-mm pitch
Weight	5.1 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  
I2C, SPI  
SDIO3.0  
ADC  
1.8 V/3.0 V USIM interface  
NET\_LIGHT  
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/9.x/10.x/11.x
RIL Driver	Android 4.x/5.x/6.x/7.x/8.x/9.x/10.x/11.x

### Enhanced Features

- SDIO Interface for WLAN Function (Optional)
- SDIO Interface for SD/TF Card Function (Optional)
- USIM Card Detection
- 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: -144 dbm (GPS)/-143.5 dbm (GLONASS)  
Tracking: -160 dbm (GPS)/-159.5 dbm (GLONASS)
  - Position Accuracy (Open air): <3 m (CEP50)
  - Navigation update rate: 1 Hz

### Certification Approvals

CE, RoHS, FCC, PTCRB, GCF, IC, RCM, ANATEL,  
AT&T, T-Mobile, Verizon\*, NCC\*, ICASA\*, JATE\*, TEL-  
EC\*, Telstra\*

\* indicates in development

### Neoway Technology Co., Ltd.

Product enquiry: [sales@neoway.com](mailto:sales@neoway.com).

Technical support: [support@neoway.com](mailto:support@neoway.com).

For more information, please visit [www.neoway.com](http://www.neoway.com).

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