NEOWAY N75

Ideal Solution for IoT Applications

- LTE Cat 4 module optimized for M2M and IoT applications
- DTMF*, eCall* and DFOTA*
- Used in most regions including North-America, Europe, Japan where LTE networks are deployed
- An optimal option for energy metering, telematics, industrial router, industrial PAD, video surveillance, environmental monitoring, etc.

Chipset

Qualcomm MDM9x07

Operating temperature

-40°C to +85°C, industrial-grade

Various protocols

TCP/IP/UDP/MQTT IoT protocols

Compact package

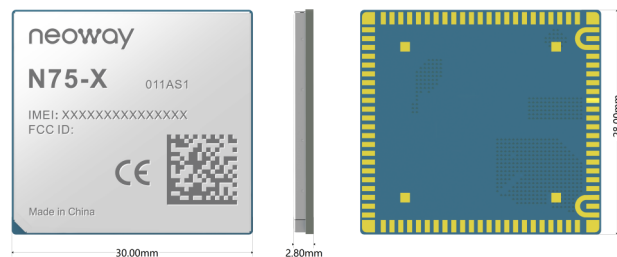LGA package
30.0 mm × 28.0 mm × 2.8 mm
Reduce product size

Technical support

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

N75 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 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.

This module has low power consumption, ultra wide operating temperature range, and excellent RF performance. Integrating various 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.

Get connected Get smart

neoway

N75 LTE Cat 4
Ideal Solution for
IoT Applications

neoway
N75-X 011AS1
IMEI: XXXXXXXXXXXXXX
FCC ID:
CE
Made in China

30.00mm   2.80mm   28.00mm

Specifications

N75-NA (North America)	LTE FDD: B2/B4/B5/B7/B12/B13/B25/B26/B66/B71 UMTS: B2/B4/B5 GSM/GPRS: 850/1900MHz
N75-NF (North America)	LTE FDD: B2/B4/B5/B7/B12/B13/B14/B25/B26/B66/B71 UMTS: B2/B4/B5 GSM/GPRS: 850/1900MHz
N75-A (AT&T)	LTE FDD: B2/B4/B5/B12/B66 UMTS: B2/B4/B5
N75-EA (EMEA)	LTE FDD: B1/B3/B5/B7/B8/B20/B28 LTE TDD: B38/B40/B41 UMTS: B1/B5/B8 GSM/EGPRS: 900/1800MHz
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: 850/900/1800/1900MHz
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), Typ.: 3.8V
Power consumption	< 4mA @ Sleep < 15mA @ Idle mode
Operating temperature	-40°C to +85°C
Dimensions	30.0mm x 28.0mm x 2.8mm($\pm$0.1mm)
Package	100-pin LGA, 1.0-mm pitch
Weight	5.1g$\pm$0. 2g
AT commands	3GPP TS 27.007, 27.005 Neoway enhanced AT Commands

Interfaces

POWER, PWRKEY_N, RESET_N
USB2.0, UART
PCM, I2C, SPI*
SDIO3.0
ADC
1.8V/3.0V USIM interface
NET_LIGHT
Cellular and GNSS antenna interfaces

Features

Data rate	LTE: Max. 150Mbps (DL)/50Mbps (UL) UMTS: Max. 42Mbps (DL)/5.76Mbps (UL) EDGE: Max. 236.8bps (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

SDIO Interface for WLAN Function (Optional)

SDIO Interface for SD/TF Card Function (Optional)

PCM/I2C Interface for Voice Function (Optional)

Dual-tone multi-frequency signaling (DTMF)

USIM Card Detection

Differential Firmware Over-the-Air (DFOTA)

GNSS: (not supported in N75-NF)

- 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: -149dbm(GPS)/-148.5dbm(GLONASS)
  Tracking: -158.7dbm(GPS)/-158.2dbm(GLONASS)
- Position Accuracy (Open air): <3m(CEP50)

Certification Approvals

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

* indicates in development