NEOWAY N725

LTE Cat. 4 Module

Key Benefits

- LTE Cat.4 modules optimized for M2M and vehicle applications.
- Feature refinements: supports GNSS, eCall, Audio, and FOTA.
- Compliant with IATF16949 requirements and follows the automotive-grade quality control process: APQP, FMEA, MSA, SPC, PPAP and other tools.
- Applicable to passenger car, commercial car and two-wheeled cars, etc.
- Used in most regions including China, EMEA, Latin America and SEA

ASR chipset

ASR 1803E

Operating temperature

-30°C~+75°C

Multiple dialing methods

PPP/ECM/RNDIS

LGA package, small size
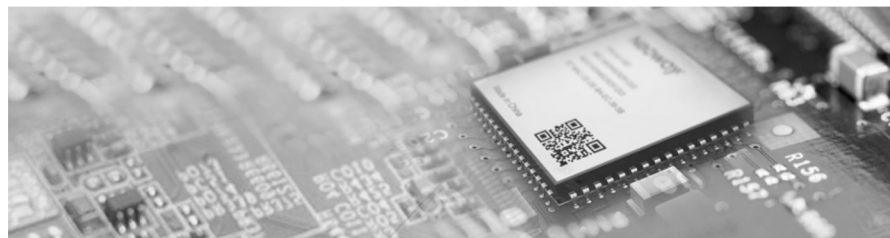
Reduce product area

Technical support

Reference designs, evaluation kits
Timely support via emails, calls, and instant messages
Field support
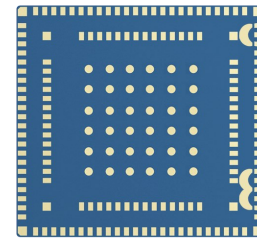
Product Description

N725 is an LTE Cat 4 module optimized specially for M2M and vehicle applications. Adopting the 3GPP Rel.12 LTE technology, it delivers 150 Mbps downlink and 50 Mbps uplink data rates.

With high speed, ultra wide operating temperature range, N725 has excellent RF performance. A rich set of Internet protocols, industry-standard interfaces, and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10, Linux, Android) extend the applicability of the module. N725 also supports UMTS and GSM networks for application in areas not covered by LTE networks so that it can be used in most regions including China, EMEA, SEA where LTE networks are deployed.

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LTE Cat 4 module

Specifications

N725-CN	LTE FDD: B1, B3, B5, B8 LTE TDD: B34, B38, B39, B40, B41 UMTS: B1, B5, B8 GSM/GPRS: 900/1800 MHz
N725-EA	LTE FDD: B1, B3, B5, B7, B8, B20, B28 LTE TDD: B38, B40, B41 UMTS: B1, B5, B8 GSM/GPRS: 900/1800 MHz
Supply voltage	3.4 to 4.2 V (DC), Typ.: 3.6V
Operating temperature	-30°C to +75°C
Dimensions	30.0 mm x 28.0 mm x 2.80 mm (± 0. 1 mm)
Package	192 pin LGA
Power consumption	<3. 5 mA @Sleep mode <20 mA @Idle mode
Development	Open Linux
CPU	ARM v7 CPU up to 600 MHz
Memory	RAM: 128 Mb ROM: 256 Mb

Features

Data rate	FDD-LTE: Max 150 Mbit/s (DL)/Max 50 Mbit/s (UL) TDD-LTE: Max 130 Mbit/s (DL)/Max 30 Mbit/s (UL) UMTS: Max 21 Mbit/s (DL)/Max 5.76 Mbit/s (UL)
SMS	TEXT/PDU Point to Point/Cell Broadcast
Network protocols	TCP/UDP/MQTT/PPP/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
RNDIS driver	Windows 7/8/8.1/10
Linux driver	Linux 2.6/3.x/4.1 - 4.4

Application Interfaces

POWER, PWRKEY_N, RESET_N

USB2.0, UART, PCM, I2C, SPI, SDIO, RGMII

1.8 V/3.0 V USIM interface

Cellular antenna interfaces

Enhanced Features

3G/4G antenna, 50 Ω characteristic impedance

Three UART interfaces, one of which supports hardware flow control

One USIM interface, compatible with 1.8 V/3 V USIM cards

One USB2.0 high-speed interface

One SPI interface

One I2C interface

One RGMII interface

Firmware Over-the-Air (FOTA)

Certification Approvals

CCC, CTA, SRRC, RoHS, CE*

* indicates in development

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For more information, please visit www.neoway.com