

NEOWAY N723

LTE Cat. 4 Module



Key Benefits

- The LTE Cat. 4 module optimized for M2M and IoT applications.
- N723 can be used in most regions including CHINA, EMEA, SEA, Latin America and India where LTE networks are deployed.
- Feature refinements: supports Open CPU and FOTA
- N723 is an optimal option for energy metering, telematics, industrial router, industrial PAD, video surveillance, environmental monitoring, etc.



ASR chipset

ASR 1803S



Operating temperature

-40°C~+85°C, industrial grade



Multiple dialing methods

PPP/ECM/RNDIS



LGA package, small size

Reduce product area



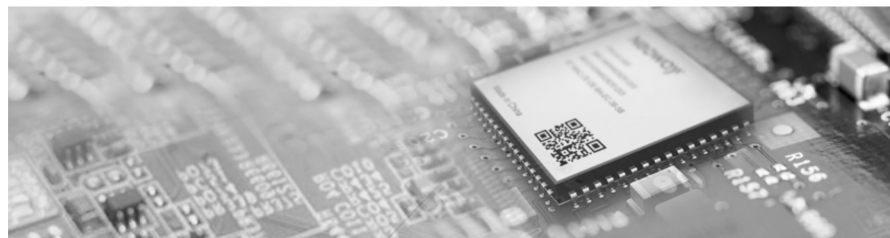
Technical support

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

Product Description

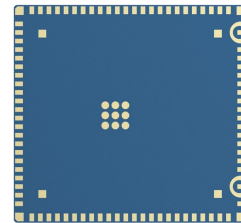
N723 is an LTE Cat. 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel.12 LTE technology, it delivers 150 Mbps downlink and 50 Mbps uplink data rates.

With high speed, ultra wide operating temperature ranges, excellent RF performance, integration of Internet protocols, industry-standard interfaces, and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10, Linux, and Android OS), the N723 series can be used in most regions including CHINA, EMEA, SEA where LTE networks are deployed. It also supports UMTS and GSM networks for application in areas not covered by LTE networks.



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Specifications

N723-EA	FDD-LTE: B1, B3, B5, B7, B8, B20, B28 TDD-LTE: B38, B40, B41 WCDMA: B1, B5, B8 GSM/GPRS/EDGE: 900/1800 MHz
N723-LA*	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
Supply voltage	3.3 to 4.3 V (DC), typical: 3.8 V
Operating temperature	-40°C to +85°C
Dimensions	30.0 mm x 28.0 mm x 2.95 mm (±0.2 mm)
Package	100 pin LGA
Power consumption	<4 mA @Sleep mode <30 mA @Idle mode
AT commands	3GPP TS 27.007, 27.005 Neoway enhanced AT Commands
CPU	ARM v7 CPU up to 1.2 GHz
Memory	RAM: 256 Mb ROM: 128 Mb

Interfaces

POWER, PWRKEY_N, RESET_N
USB 2.0, UART
PCM, I2C, SPI, GPIO, SDIO
ADC
1.8V/3.0V USIM interface
NET_LIGHT
Cellular antenna interfaces

Certification Approvals

CE*, RoHS*

Features

Data rates	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) EDGE: Max 236.8 Kbps (DL)/Max 236.8 Kbps (UL) GPRS: Max 85.6 Kbps (DL)/Max 85.6 Kbps (UL)
SMS	TEXT/PDU Point to Point/Cell Broadcast
Network protocols	TCP/TCPs, UDP, HTTP/HTTPS, FTP, MQTT
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

Enhanced Features

2G/3G/4G antenna, 50 Ω characteristic impedance
Three UART interfaces, one of which supports hardware flow control
One USIM interfaces, compatible with 1.8 V/3 V USIM cards
One USB2.0 high-speed interface
One SPI interface, only supports host mode
Four GPIOs with interrupt
One I2C interface, only supports host mode
Firmware Over-the-Air (FOTA)
One RMIII port
One SDC/MMC port, for SD card or EMMC

* indicates in development