

# NEOWAY N77

## LTE Cat 4 Module



### Key Benefits

- LTE Cat 4 module optimized for M2M and IoT applications
- N77 can be used in most regions including CHINA, EMEA, SEA where LTE networks are deployed
- Feature refinements: supports Dual-SIM and FOTA
- N77 is mainly used in the energy market



### ASR chipset

ASR 1802S



### 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

N77 is an LTE Cat 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel.12 LTE technology, it delivers 150Mbps downlink and 50Mbps uplink data rates.

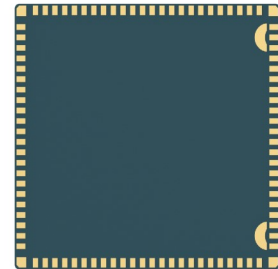
With high speed, ultra wide operating temperature range, excellent RF performance, integration of Internet protocols, industry-standard interfaces, and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10, Linux, Android).

N77 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

N77-CN	LTE FDD: B1, B3, B5, B8 LTE TDD: B34, B38, B39, B40, B41 UMTS: B1, B5, B8 GSM/GPRS: 900/1800 MHz	Data rate	FDD-LTE: Max 150Mbit/s (DL)/Max 50Mbit/s (UL) TDD-LTE: Max 130Mbit/s (DL)/Max 30Mbit/s(UL) UMTS: Max 21Mbit/s (DL) / Max 5.76 Mbit/s(UL)
N77-EA*	LTE FDD: B1,B3,B5,B7,B8,B20,B28 LTE TDD: B38, B40, B41 UMTS: B1, B5,B8 GSM/GPRS: 900/1800 MHz	SMS	TEXT/PDU Point to Point/Cell Broadcast
Supply voltage	3.3 to 4.3 V(DC), Typ.: 3.8V	Network protocols	TCP/UDP/MQTT/PPP/FTP /HTTP/HTTPS/SSL/TLS
Operating temperature	-40°C to +85°C	Firmware upgrade	Via USB or FOTA
Dimensions	30.0mm x 28.0mm x 2.8mm(±0.1mm)	USB Driver	Windows 7/8/8.1/10 Linux 2.6~4.4 Android 4.x/5.x/6.x/7.x/8.x
Package	100 pin LGA	RIL Driver	Android 4.x/5.x/6.x/7.x/8.x
Power consumption	< 4mA @Sleep mode < 30mA @Idle mode	RNDIS Driver	Windows 7/8/8.1/10
AT commands	3GPP TS 27.007, 27.005 Neoway enhanced AT Commands	Linux Driver	Linux 2.6/3.x/4.1~4.4
CPU	ARM v7 CPU up to 600MHz		
Memory	RAM: 128Mb ROM: 128Mb		

### Application Interfaces

POWER, PWRKEY\_N, RESET\_N  
USB2.0, UART  
PCM, I2C, SPI, GPIO, SDIO  
ADC  
1.8V/3.0V USIM interface  
NET\_LIGHT  
Cellular antenna interfaces

### Certification Approvals

CCC\*, CTA\*, SRRC\*, CE\*, RoSH\*

\* indicates in development

### Enhanced Features

3G/4G antenna, 50Ω characteristic impedance  
Two UART interfaces, one of which supports hardware flow control  
One USIM interface, compatible with 1.8V/3V USIM cards,  
One USB2.0 high-speed interface  
One 10-bit ADC interface, detectable voltage ranging from 0.1 to 1.3V.  
One SPI interface  
Four GPIOs with interrupt  
One I2C interface

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

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