



## About Neoway

One of the important mission of Neoway Technology is to focus on the development and realization of the demand of the wireless applications so that people can work more efficient and have a more exciting life. One of the core competitiveness of Neoway Technology is to grasp the customer's demand timely and accurately, we'll work through the relevant culture, institution, IT and so on to strengthen the core competitiveness. After grasping the customer's demand, our management team is confident to realize the customer's demand by the use of research and development, logistics, manufacturing and other aspects of the experience and resources which has been accumulated for nearly two decades.

There are two divisions in Neoway Technology: Consumer Electronics Division and M2M Division. Consumer Electronics Division is focused on meeting the people's demand of short-range wireless communication, our products has been widely used in commercial field in overseas markets. M2M Division mainly provides module products for LTE, WCDMA, EVDO, GPRS, CDMA, short range RF and a variety of communications standard, and advisory service of related applications. The target markets is to the customer who requires a high quality of the module, such as Electricity, in-car system, data transmission, handheld terminal and some other related industrial applications.

Neoway Technology will be the most respected global supplier of wireless products and services in the future!

- **GPRS Module ([Click Me](#))**
- **CDMA Module ([Click Me](#))**
- **UMTS Module ([Click Me](#))**
- **LTE Module ([Click Me](#))**

# COMPUTER CONTROLS

Components

Instruments

EDA - Software

## GPRS Module



M590E



M660



M680



N10



## GPRS Module

### M590E

M590 is a kind of single-chip GPRS industrial wireless module with data only. It has SMS, data service and other functions. It is widely used in different kinds of industrial and commercial fields. Especially AMR market, won leading market share, widely used in concentrator, collectors, electrical load controllers, meters, handheld terminal etc.

#### product features:

Dual-band: 900/ 1800 MHz

Good network compatibility: Certified by the global GPRS R4 agreement

Operating temperature: -40~+80°C

High reliability: Special EMI/EMC design, very steady in bad electromagnetic environment

Support various protocols:

- ☑ TCP/UDP/FTP/DNS
- ☑ TCP protocol stack support client mode, server mode, mix mode
- ☑ Multi-channel link



#### product certificate:

CMIIT, CE, CCC

#### product specification:

Specifications	Description
Dimensions	27.6 * 21.2 * 2.6mm
Sensitivity	-107dBm
Instantaneous current	Max 2.0A
Operation current	< 210mA
Standby current	< 2.5mA
Operating temperature	-40~+80°C
Operation voltage	3.3~4.5V, 3.9V recommended
Packaging	21-pin LCC package



## GPRS Module

### M660

With the ultra-compact design, M660 is intended to be used in a wide range of applications, including industrial and consumer devices. M660 is a GSM/GPRS module with EDGE of downlink. It features with voice, SMS, and data services.

#### product features:

Quad-band: 850/ 900/ 1800/ 1900 MHz

Support various protocols:

TCP/ UDP/ FTP/ DNS

☑ TCP protocol stack support client mode, server mode, mix mode

☑ Multi-channel link

#### product certificate:

CMIIT, CE, FCC



#### product specification:

Specifications	Description
Dimensions	22.0 * 18.4 * 2.8 mm
Sensitivity	-107 dBm
Instantaneous current	Max 1.8 A
Operation current	< 250 mA
Standby current	< 2.0 mA
Operating temperature	-40~+85°C
Operation voltage	3.5~4.3V, 3.9 V recommended
Packaging	28-pin LCC package



## GPRS Module

### M680

M680 is one of the smallest GSM/GPRS modules in LCC package. The leading feature of M680 makes it easily embedded into the low-volume applications and ensures the reliable connectivity with the applications. It is ideal for M2M applications like MID, POS, Security and AVL etc.

#### product features:

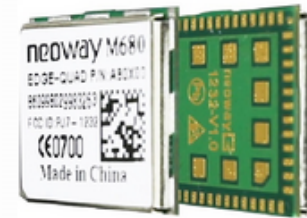
Quad-band: 850/ 900/ 1800/ 1900 MHz

Support various protocols:

- TCP/UDP/FTP/DNS
- TCP protocol stack support client mode, server mode, mix mode
- Multi-channel link

#### product certificate:

CMIIT, CE, CCC, FCC



#### product specification:

Specifications	Description
Dimensions	15.0 * 18.0 * 2.1mm
Sensitivity	-107 dBm
Instantaneous current	Max 1.8A
Operating current	< 250 mA
Standby current	< 2.0 mA
Operating temperature	-40~+85°C
Operating voltage	3.5~4.3 V, 3.9 V recommended
Packaging	83-pin LGA package



## GPRS Module

### N10

N10 is one of the smallest GSM/GPRS modules in LCC package. The leading feature of N10 makes it easily embedded into the low-volume applications and ensures the reliable connectivity with the applications. It is ideal for M2M applications like MID, POS, Security and AVL etc.

#### product features:

Quad-band: 850/ 900/ 1800/ 1900 MHz

Support various protocols:

- TCP/ UDP/ FTP/ DNS
- TCP protocol stack support client mode, server mode, mix mode
- Multi-channel link



Support OpenCPU mode

#### product certificate:

CMIIT, CE, CCC, FCC

#### product specification:

Specifications	Description
Dimensions	17mm*23.5mm*2.2mm
Sensitivity	-107 dBm
Peak current	Max 2.0A
Idle current	< 11 mA
Current in sleep mode	< 2.5 mA (On network) < 1.1 mA (instrument, DRX=9)
Operating temperature	-40~+85°C
Operating voltage	3.5~4.3 V, 3.9 V recommended
Packaging	64 pin LCC package



# COMPUTER CONTROLS

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## CDMA Module



CM180



## CDMA Module

### CM180

CM180 is a kind of CDMA2000 1X industrial wireless module for 800M single-band. It has high-quality voice, SMS, data service and other functions. It is widely used in different kinds of industrial and commercial fields.

#### product features:

Single-band: 800MHz

Chipset: Qualcomm single-chip solution

High reliability: highly integration, simplify the design

Support various protocols:

TCP/UDP/FTP/DNS

TCP protocol stack support client mode, seerver mode, mix mode

Multi-channe link



#### product certificate:

CMIIT, CCC

#### product specification:

Specifications	Description
Dimensions	30.3 * 25.0 * 2.7mm
Sensitivity	-106dBm
Instantaneous current	Max 0.6A
Operating current	< 230mA
Standby current	< 3.0mA
Operating temperature	-40~+80°C
Operating voltage	3.3~4.25V, 3.9V recommended
Packaging	39-pin LCC package





# COMPUTER CONTROLS

Components

Instruments

EDA - Software

## UMTS Module



WM620



N703



## UMTS Module

### WM620

WM620 is a kind of WCDMA industrial wireless module, at the same time compatible with quad-band EDGE/GPRS/GSM. It has high-quality voice, SMS, data service and other functions. It is widely used in different kinds of industrial and commercial fields. WM620 is a single-side device of stamp-hole package, it can be easily changed to general mini PCI-E interface.

#### product features:

WCDMA Dual-band: 850/ 1900 MHz or 900/ 2100 MHz

High reliability: highly integration, simplify the design

Support various protocols:

TCP/UDP/FTP/DNS

TCP protocol stack support client mode, server mode, mix mode

Multi-channel link



#### Product certificate:

CMIIT, CE, FCC

#### product specification:

Specifications	Description
Dimensions	30.0 * 30.0 * 2.7mm
Sensitivity	-107dBm
Instantaneous current	Max 2.0A
Operation current	< 230mA
Standby current	< 5.0mA
Operating temperature	-40~+85°C
Operation voltage	3.3~4.2V, 3.9V recommended
Packaging	62-pin LCC package



## UMTS Module

### N703

N703 is an industrial high-performance data module that is developed on the Qualcomm platform. Its dimensions are 38 mm x 28 mm x 3 mm and it adopts LCC package. This module supports multiple bands of GSM and WCDMA and provides various hardware interfaces to facilitate application development on it. N703 is well applicable to automatic meter reading (AMR), vehicle-mounted computers, smart home, and other IoT terminals.

#### product features:

WCDMA 3 bands: 850/ 1900/ 2100 MHz

Chipset: Qualcomm

High reliability: highly integration, simplify the design

Rate: HSDPA DL 3.6Mbps/ UL 384Kbps

Support various protocols:

- TCP/ UDP/ FTP/ DNS

- TCP protocol stack support client mode, seerver mode, mix mode

- Multi-channe link



#### product specification:

Specifications	Description
Dimensions	38 * 28 * 3.0mm
Sensitivity	-107dBm
Instantaneous current	Max 2.0A
Operation current	< 500mA
Standby current	< 5.0mA
Operating temperature	-40~+85°C
Operation voltage	3.3~4.3V, 3.9V recommended
Packaging	63-pin LCC



# COMPUTER CONTROLS

Components

Instruments

EDA - Software

## LTE Module



N1



N720



N720 Mini PCIE



## LTE Module

### N1

N1 is an industrial smart LTE module that is developed on Qualcomm platform and supports Windows 10 and Android OS. Its dimensions are 40mm x 40 mm x 2.8mm. It is well applicable to in-vehicle computers, multimedia terminals, smart homes, etc.

#### product features:

Quad-core ARM Cortex-A7 processors, 1.1 GHz main frequency, 512kB L2 cache, 28 nm

GSM/GPRS/WCDMA/HSPA+, CDMA20001X/EV-DOrA, LTE TDD/FDD

WiFi 802.11b/g/n, BT4.0, GPS/GLONASS/BEIDOU communications modes; FM radio  
Windows 10, Android 5.1 OS

OTG, Camera, Touch Panel, Speaker, TF-card



#### Certificates:

CCC, CMIIT

#### product specification:

Specifications	Description
Power supply	VBAT: 3.5V to 4.2V, typical value 3.9V
Current	Flight mode: 2 mA
	Sleeping mode: 4mA
Operating temperature	-25°C to +75°C
Band	LTE-FDD: B1/B3
	LTE-TDD: B38/B39/B40/B41
	WCDMA: B1
	CDMA1X/EVDO: BC0
	GSM/GPRS/EDGE: B2/B3/B5/B8
Sensitivity	2G/3G< -107dBm;
	LTE: B1<-98; B3<-95; B39<-98; B40<-98; B41<-96 LTE Test Bandwidth: 10MHz



## LTE Module

### N720

N720 is an industrial 4G module that is developed on Qualcomm platform. It supports Windows 10 and Android OS. Its dimensions are 30 mm x 28 mm x 2.8 mm. It is well applicable to electric terminals, in-vehicle computers, POS, industrial routers, and other IoT terminals.

#### product features:

ARM Cortex-A7 processors, 1.3 GHz main frequency, 256 kB L2 cache, 28 nm GSM/GPRS/EDGE & CDMA2000@1x/1xAdvanced/1xEV-DO rA & WCDMA R99 to DC-HSPA+ & TD-SCDMA  
USB2.0/ADC/UART/SPI/I2C/PCM

#### Certificates:

CCC, CE, FCC, Rohs



#### product specification:

Specifications	Description
Power supply	VBAT: 3.3V to 4.3V, typical value 3.8 V
Current in sleep mode	4mA
Temperature	Operating temperature: -35°C to +75°C
	Limited: -40°C to -35°C; +75°C to +85°C
	Storage temperature: -45°C to +90°C
Band	<b>CN:</b> GSM/GPRS/EDGE: 900M/1800M CDMA: BC0 TD-SCDMA: B34/B39 UMTS: B1/B8 LTE-FDD: B1/B3/B8 LTE-TDD: B38/B39/B40/B41
	<b>JP:</b> UMTS: B1/B8/B9/B19 FDD-LTE: B1/B3/B8/B9/B19
	<b>EU:</b> GSM/GPRS/EDGE: 850M/ 900M/1800M/1900M UMTS: B1/B8 FDD-LTE: B1/B3/B7/B8/B20 TDD-LTE: B40
	<b>US:</b> GSM/GPRS/EDGE: 850M/ 900M/1800M/1900M UMTS: B2/B4 FDD-LTE: B2/B4/B7/B17



## LTE Module

### N720 Mini PCIE

N720 Mini PCIE is an M2M module, which integrates 2G/3G/4G and GPS. It is developed based on Qualcomm Snapdragon chipset and supports dual SIM. This module is ideal for industrial terminal solutions.

#### product features:

7 cellular standards and 10 bands: TDD-LTE, FDD-LTE, TD-SCDMA, WCDMA, CDMA1X/EVDO, GSM/GPRS/EDGE  
PCI Express MiniCard 1.2 standard interface  
Supports dual SIM and FOTA



#### Certificates:

CCC, CMIIT, CE, FCC, RoHS

#### product specification:

Specifications	Description
Dimensions	51mm*30mm*3.9mm
Power supply	VBAT: 3.0V to 4.2V, 3.9V typically
Current	Flight mode: 2 mA
	Sleep mode: 4 mA
Operating temperature	-40°C to +85°C

