

NEOWAY N58

Ideal Solution for IoT Applications



- Optimized for M2M and IoT applications
- GNSS, audio, Bluetooth, and FOTA
- Applicable to smart metering, sharing equipment, tracker, environmental monitoring, etc.
- Used in most regions including China, EMEA, and SEA where LTE networks are deployed



Chipset

Unisoc 8910DM

N58 is an LTE Cat 1 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel.13 LTE technology, it delivers 10Mbps downlink and 5Mbps uplink data rates.



Operating temperature

-40°C to +85°C, industrial-grade

This module has excellent RF performance, and it supports low power consumption and ultra wide operating temperature range and. N58 integrates various network protocols and provides industry-standard interfaces. With abundant functionalities and USB serial drivers for Windows 7/8/8.1/10, Linux, and Android, N58 is an optimal option for energy metering, telematics, industrial router, industrial PAD, video surveillance, environmental monitoring, etc.



Various protocols

TCP/IP/UDP/MQTT IoT protocols

The N58 series can be used in most regions including China, EMEA, and SEA where LTE networks are deployed. It also supports GPRS networks for application in areas not covered by LTE networks.



Compact package

LCC+LGA package
30.0 mm × 28.0 mm × 2.6 mm
Reduce product size



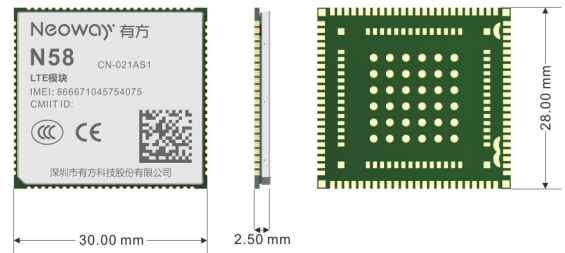
Technical support

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



N58 LTE Cat1

Ideal Solution for IoT Applications



Specifications

N58-CN	LTE Cat1: B1, B3, B5, B8, B38, B39, B40, B41 GSM/GPRS: 900/1800 MHz
N58-EA	LTE Cat1: B1, B3, B7, B8, B20, B28, B38, B40, B41 GSM/GPRS: 900/1800 MHz
Supply voltage	3.3 to 4.3 V(DC), Typ.: 3.8V
Operating temperature	-40°C to +85°C
Dimensions	30.0(±0.15)mm x28.0(±0.15)mm x2.6(±0.2)mm
Package	192-pin LCC+LGA
Power consumption	< 2 mA @Sleep mode < 15 mA @Idle mode
AT	3GPP TS 27.007, 27.005 Neoway enhanced AT commands
CPU	ARM A5, 500 MHz main frequency
Memory	RAM: 128 Mb ROM: 64 Mb

Interfaces

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

Certification Approvals

CCC*, CTA*, SRRC*, CE-R*, RoSH*

* indicates in development

Features

Data rate	LTE: CAT1, Max. 10Mbit/s (DL)/Max. 5Mbit/s(UL) GPRS: Max. 85.6 Kbit/s(DL) / Max. 85.6 Kbit/s(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
RNDIS Driver	Windows 7/8/8.1/10
Linux Driver	Linux 2.6/3.x/4.1~4.4

Enhanced Features

2G/4G antenna, 50Ω characteristic impedance
Three UART interfaces, one of which supports hardware flow control
Two USIM interfaces, 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 1.7V
One SPI interface
Four GPIOs with interrupt
One I2C interface
One set of 3*3 key pads
One audio input and one audio output
Dual-USIM-single-standby (Optional)*
Firmware Over-the-Air (FOTA)
VoLTE
MCU software OTA*
Bluetooth 4.2*
Wi-Fi SCAN
OpenCPU

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For more information, please visit www.neoway.com

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