

Description:

Neoway N58 is ideal solution for M2M and IoT applications N58 is an industrial LTE module that is developed based on the UNISOC UIS8910DM platform. This module supports GSM, FDD-LTE (Cat 1), and TDD-LTE (Cat 1) network modes. It provides a variety of hardware interfaces, supports audio and video functions, Wi-Fi positioning. This module is applicable to IoT communications devices, including wireless meter reading terminals, in-vehicle terminals, handheld POS terminals, and industrial routers.

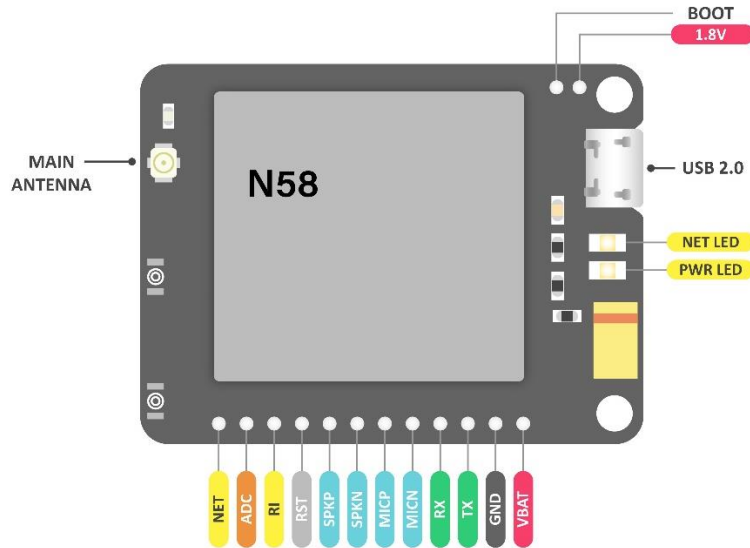
This module has excellent RF performance, and it supports low power consumption and ultra-wide operating temperature range. N58 integrates various network protocols and provides industry-standard interfaces. With abundant functionalities and USB serial drivers for Windows 7/8/8.1/10, Linux, and Android,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

Basic features:

- Operating voltage VBAT: 3.4 V to 4.3 V, typical value: 3.8 V
- Operating current
 - a) Sleep mode: < 3 mA
 - b) Idle mode: < 16 mA
 - c) Operating mode (LTE mode): < 600 mA
- Application processor ARM Cortex-A5 processor, 500 MHz main frequency, 32 KB L1 cache
- Memory:
 - a) RAM: 128 Mb
 - b) ROM: 64 Mb

- Wireless rate
 - a) GPRS: Max 85.6 kbps (DL)/Max 85.6 kbps (UL)
 - b) FDD-LTE: Cat 1, Max 10 Mbps (DL)/Max 5 Mbps (UL)
 - c) TDD-LTE: Cat 1, Max 8 Mbps (DL)/Max 2 Mbps (UL)
- Data rate
 - a) LTE: CAT1, Max. 10Mbit/s (DL)/Max. 5Mbit/s(UL)
 - b) GPRS: Max. 85.6 Kbit/s (DL) / Max. 85.6 Kbit/s(UL)
- It supports ESIM (option)
- Application interface
 - a) 2G/4G antenna,
 - b) One UART interfaces,
 - c) One USIM interfaces, adaptive 1.8 V/3 V.
 - d) One USB2.0 high-speed interface
 - e) One 10-bit ADC interface,
 - f) One audio input and one audio output
 - g) Firmware Over-the-Air (FOTA)
 - h) VoLTE
 - i) MCU software OTA*
 - j) Open CPU
- AT command
 - a) 3GPP Release 13
 - b) Neoway extended commands
- SMS (PDU, TXT)
- Network Protocols (TCP, UDP, MQTT, FTP, HTTP/HTTPS, SSL, TLS)
- USB drivers
 - a) Windows 7/8/8.1/10
 - b) Linux 2.6~4.4
 - c) Android 4.x/5.x/6.x/7.x/8.x
- RIL Driver (Android 4.x/5.x/6.x/7.x/8.x)

Pin Description:



VBAT: 3.4 V to 4.3 V, typical value: 3.8 V

Push-pull Nano SIM CARD Holder available on **BACK SIDE**.

POWER	ADC	AUDIO INTERFACES	INDICATION
GND	UART	CONTROL	



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