

N20

NB-IoT/eMTC/ EDGE Module
Ultra-low power consumption





Ultra-low power consumption



Compact Size



Operating temperature
-40 to +85°C



Neoway enhanced AT commands

Neoway™

N20

N20 is a high performance, low power consumption NB-IoT(Cat NB1)/eMTC(Cat M1)/ EDGE module based on Qualcomm platform. Its dimensions are 25.8 x 23.8 x 2.8 mm which makes it perfectly suited for industrial applications with strict size requirement. N20 supports GNSS and various hardware interfaces, and is easy to develop. It is well applicable to IoT communications devices requiring low speed and low power consumption.

Features

- Frequency Bands
 - US:**
eMTC: B2, B4, B12, B13
 - CN:**
NB-IoT: B1, B3, B5, B8
eMTC: B1, B3, B5, B8, B39
GSM/GPRS/EDGE: 900/1800 MHz
 - CA:**
NB-IoT/eMTC: B3, B5, B8
 - EU:**
NB-IoT/eMTC: B3, B8, B20
GSM/GPRS/EDGE: 900/1800 MHz
 - AP*:**
NB-IoT/eMTC: B3, 28
GSM/GPRS/EDGE: 900/1800 MHz
 - JP*:**
NB-IoT/eMTC: B1, B3, B8, B18, B19, B26
 - Operating temperature: -40°C to +85°C
 - Supply voltage: 3.3 to 4.3 V (DC), 3.8 V recommended
 - Idle current: TBD
 - Package: LCC 68-pin
 - Dimensions: 25.8 x 23.8 x 2.8 mm
 - Control via AT commands: 3GPP Rel-13
Neoway enhanced AT commands
 - Firmware upgrade Via USB
 - CMUX
 - SMS
 - Various hardware interfaces
 - GNSS (optional): GPS, GLONASS, BDS
- * means in developing

Specifications

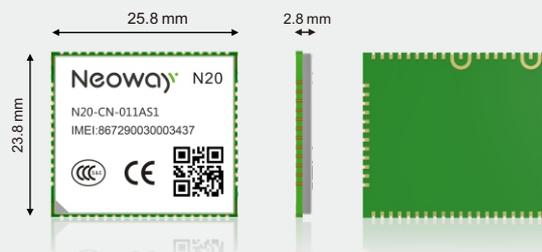
- Data:
 - LTE eMTC**
Max. 375Kbps(DL)
Max. 300Kbps(UL)
 - NB-IoT**
Max. 32Kbps(DL)
Max. 72Kbps(UL)
 - EDGE**
Max. 236.8Kbps(DL/UL)
 - GPRS**
Max. 85.6Kbps(DL/UL)
- SMS: TEXT/PDU
Point to Point/Cell Broadcast

Interfaces

- Power, On/Off, Reset
- USB 2.0 HS
- 2 UART
- 1.8 V/ 2.85 V USIM interface
- Antenna: pads for Cellular and GNSS
- 4 GPIO
- 2 ADC
- SDIO
- I2C
- SPI
- PCM

Highlights

- Multiple modes: NB-IoT/eMTC/EDGE
- OpenLinux based on A7 processor
- Integrated GNSS (optional)
- Low power consumption
- Deep coverage
- Support VoLTE (only for eMTC)
- LCC package, easy to solder



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