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N20

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



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GET CONNECTED GET SMART

Ultra-low power consumption

Compact Size

Operating temperature -40 to +85°C

Neoway enhanced AT commands

N20

N20 is a high performance, low power consumption NB-IoT(Cat NB1)/eMTC(Cat M1)/EGPRS 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/eMTC: B3, B5, B8
  GPRS/EGPRS: 900/1800 MHz

  EU:
  NB-IoT/eMTC: B3, B8, B20
  GPRS/EGPRS: 900/1800 MHz

  AP:
  NB-IoT/eMTC: B3, B5, B8, B28
  GPRS/EGPRS: 900/1800 MHz

  AU:
  NB-IoT/eMTC: B3, B5, B8, B28

  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
- NB-IoT current:
  Idle current: 2.7mA@(DRX cycle=1.28s)
  eDRX mode current: 1.0mA@(eDRX cycle=61.44s, PTW=10.24s)
  PSM mode current: 7.7μA
- eMTC current:
  Idle current: 1.7mA@(DRX cycle=1.28s)
  eDRX mode current: 2.0mA@(eDRX cycle=40.96s, PTW=10.24s)
  PSM mode current: 7.5μA
- 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
- Various hardware interfaces
- GNSS (optional): GPS, GLONASS, BDS

Specifications

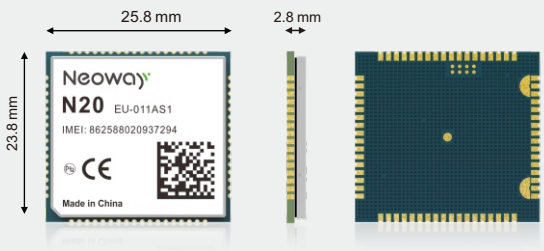
- Data:
  LTE eMTC
  Max. 300Kbps(DL)
  Max. 375Kbps(UL)
  NB-IoT
  Max. 32Kbps(DL)
  Max. 72Kbps(UL)
  EGPRS
  Max. 236.8Kbps(DL/UL)
  GPRS
  Max.85.6Kbps(DL/UL)
- SMS:
  TEXT/PDU
  Point to Point/Cell Broadcast

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/EGPRS
- Open platform 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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