

NEOWAY N25

Ideal solution for IoT Applications



- LTE Cat.NB2/GPRS module with ultra-low power consumption
- Rich interfaces, high reliability



Low power consumption

< 4 μ A @PSM&NB-IoT
< 1.7 mA @Sleep&GPRS

N25 is a low-power consumption and high-performance LTE Cat NB2/GPRS module. Its dimensions are 20 x 24 x 2.45 mm. Its pins are packaged in LGA, which reduces product area.



NB-IoT+GPRS

3GPP Rel-14 NB-IoT specification compliant
LTE Cat NB2
GPRS class 12

N25 can be used in most regions including China, Europe, Asia-Pacific and other areas where NB-IoT/ GPRS networks are deployed.

N25 integrates industrial UART interfaces and supports various network protocols, such as CoAP, UDP, TCP/IP, and MQTT.



Various protocols

CoAP, UDP, TCP/IP, and MQTT IoT protocols

With low power consumption, ultra wide operating temperature range, and excellent RF performance, N25 is an optimal option for energy metering, smart lock, security, environmental monitoring, etc.



Compact package

LGA package
20.0 mm x 24.0 mm x 2.45 mm
Reduce product size



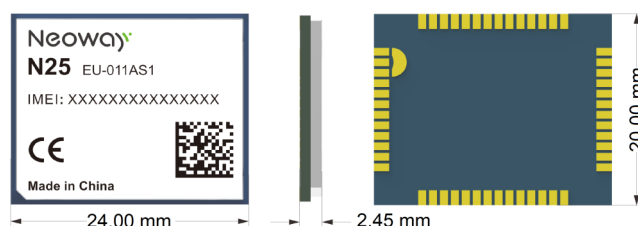
Technical support

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



N25 LTE Cat NB2/GPRS

Ideal Solution for IoT Applications



Specifications

Bands	CN NB-IoT: B3, B5, B8 GPRS: B3, B8
	EU NB-IoT: B3, B5, B8, B20, B28 GPRS: B2, B3, B5, B8
Supply voltage	3.4 to 4.3V (DC), 3.8V Typ.
Power consumption	< 4 μ A @PSM&NB-IoT < 1.7 mA @Sleep&GPRS
Operating temperature	-40°C to +85°C
Dimensions	20.0 x 24.0 x 2.45 mm
Package	LGA 52-pin
Weight	Approx. 2.3g
AT commands	3GPP Rel-13 3GPP Rel-14 Neoway enhanced AT Commands

Interfaces

Antenna	Cellular antenna
UART	UART*2, support CMUX
SIM	One USIM, 1.8V/3.0V One eSIM (optional)
Indicators	NET_LIGHT, network status STATUS, power status
Control	PWRKEY_N, RESET_N, WAKE_IN/OUT
Others	VDDIO, ADC

Features

Data rate	Cat NB1: 32 Kbps/72 Kbps(DL/UL) Cat NB2: 125 Kbps/150 Kbps(DL/UL) GPRS: 85.6 Kbps(DL/UL)
SMS	TEXT/PDU Point to Point/Cell Broadcast
Protocol	CoAP, UDP, MQTT, TCP/IP, PPP, FTP, HTTP/HTTPS*, DNS, LWM2M, DTLS
Upgrade	Firmware upgrade via UART FOTA*, MOTA*

Enhanced Features

- Support 3GPP Release 14 features
- Support mode: stand-alone, in-band, guard –band
- Support CP-CIoT and UP-CIoT
- Support the NPUSCH: format1 and format2
- Support GPRS class 12
- Support LTE Cat NB2
- Support network switch (Auto/NB/GPRS)*
- Support SIM switch*
- Support statistics on internal data traffic
- Support Wi-Fi scan* and Bluetooth*

Certification Approvals

CCC, CTA, SRRC, CE*, RoSH*, GCF*

* indicates in development

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For more information, please visit www.neoway.com

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