NEOWAY N25

Ideal solution for IoT Applications

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

N25 EU-011AS1

IMEI: XXXXXXXXXXXXXXX

CE

Made in China

Low power consumption

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

NB-IoT+GPRS

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

Various protocols

TCP, UDP, FTP
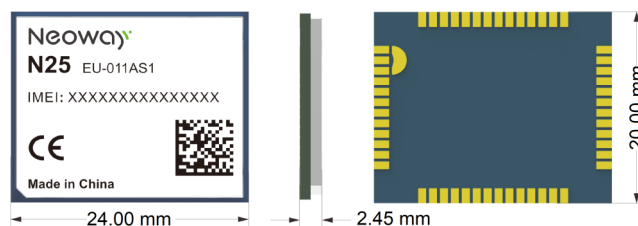
Compact package

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

Technical support

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

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.

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 TCP, UDP, FTP. 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.

Get connected Get smart

neoway

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24.00 mm 　 2.45 mm 　 20.00 mm

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 µA @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. 2.3 g
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
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	TCP, UDP, FTP
Upgrade	Firmware upgrade via UART FOTA

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 statistics on internal data traffic

Certification Approvals

CCC, CTA, SRRC, CE, RoHS

* indicates in development