Neoway GET CONNECTED GET SMART

N25

NB-IoT/GPRS module



Low power consumption

< 4uA @PSM&NB-IoT
< 1mA @Sleep&GPRS

NB-IoT+GPRS application

3GPP Releasse 13 NB-IoT specification fully compliant
GPRS class 12

Various network protocols

Support CoAP/UDP/TCP/IP IoT protocols

LGA package, small size

Reduce product area
Excellent performance of ESD

Technical support

Reference designs, evaluation kits
Timely email, call, and field support

N25 is a low-power consumption and high-performance NB-IoT/GPRS module. Its dimensions are 20x 24 x 2.3 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.

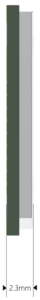
N25 integrates industrial UART interfaces and supports various network protocols, such as CoAP/UDP/TCP/IP/MQTT.

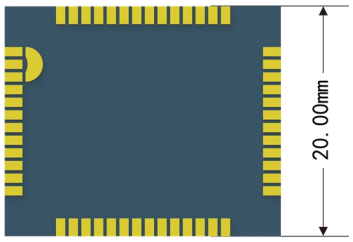
With low power consumption, ultra wide operating temperature range, and excellent RF performance, N25 is the optimal option for energy metering, smart lock, security, environmental monitoring, etc.

N25

NB-IoT/GPRS module







Features

Bands	
-NB-IoT	B3, B5, B8, B20, B28
-GPRS	B2, B3, B5, B8
Supply voltage	3.4 to 4.3 V(DC), 3.8 V Typ
Power consumption	< 4uA @PSM&NB-IoT < 1mA @Sleep&GPRS
Operating temperature	-30°C to +75°C
Dimensions	20.0 x 24.0 x 2.3 mm
Package	LGA 52-pin
Weight	Approx. 2.3g
AT commands	3GPP Rel-13 Neoway enhanced AT Commands

Specifications

Data rate	
-NB-IoT	32Kbps (DL) / 72Kbps (UL)
-GPRS	85.6Kbps(DL/UL)
SMS	TEXT/PDU Point to Point/Cell Broadcast
Network protocols	CoAP, UDP, MQTT, TCP/IP, PPP, FTP*, HTTP*/HTTPS*,
Firmware upgrade	Via UART

Interfaces

Antenna	Cellular
UART	2 UART
USIM	1.8V/3.0V
NET_LIGHT	Network status
Others	PWRKEY_N, RESET_N, STATUS, VDDIO, WAKE_IN/OUT, ADC

Enhanced Features

Support software upgradeable to 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

Certification Approvals

CCC*, SRRC*, CTA*, CE*, GCF*, RoHS*,

*** indicates in development**

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