

N21 series

NB-IoT module



Low power consumption

< 4uA @PSM



Pin2pin compatible

Compatible with Neoway N11 series
2G modules



Various network protocols

3GPP protocol stack Release 13 compliant
Support TCP/IP/UDP, IoT protocols



LGA package, small size

Reduce product area
Easy to layout



Technical support

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

N21 is a low-power consumption and high-performance NB-IoT module. Its dimensions are 13.8 x 18 x 2.5 mm. Its pins are packaged in LGA, which reduces product area.

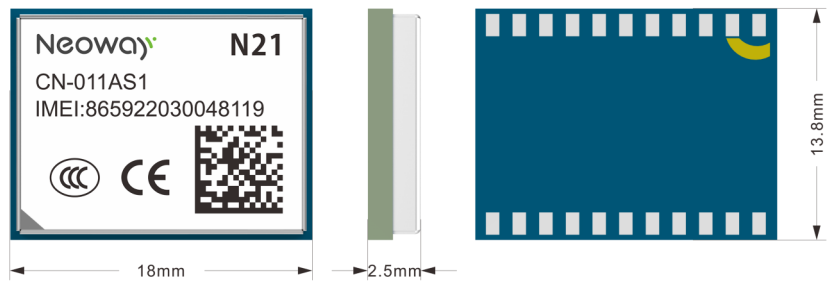
N21 series can be used in most regions including Asia, Europe, Australia and other areas where NB-IoT networks are deployed.

N21 integrates industrial UART interfaces and supports various network protocols, such as TCP/IP/UDP/MQTT/CoAP.

With low power consumption, ultra wide operating temperature range, and excellent RF performance, N21 is the optimal option for energy metering, smart lock, security, environmental monitoring, etc.

N21 series

NB-IoT module



Features

Bands	CN	B3, B5, B8
	EU	B3, B8, B20
	AP	B3, B5, B8, B28
	JP	B1, B3, B8, B18, B19, B26
Supply voltage	3.3 to 4.3 V(DC), 3.8 V Typ	
Power consumption	< 4uA @ PSM 3mA @ Idle mode	
Operating temperature	-40°C to +85°C	
Dimensions	13.8 x 18 x 2.5 mm	
Package	LGA 22-pin	
Weight	Approx. 1.3g	
AT commands	3GPP Rel-13	
	Neoway enhanced AT Commands	

Specifications

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

Interfaces

Antenna	Cellular
UART	2 UART
USIM	1.8V/3.0V
NET_LIGHT	Network status
Others	PWRKEY_N, STATUS, VCCIO, WAKEUP

Enhanced Features

Support mode: stand-alone, in-band, guard –band
Support CP-CIoT and UP-CIoT
Support the NPUSCH: format1 and format2

Certification Approvals

CCC*, SRRC*, CTA*, FCC*, RoHS*, CE*

* indicates in development

Neoway
GET CONNECTED GET SMART

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