

## 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.

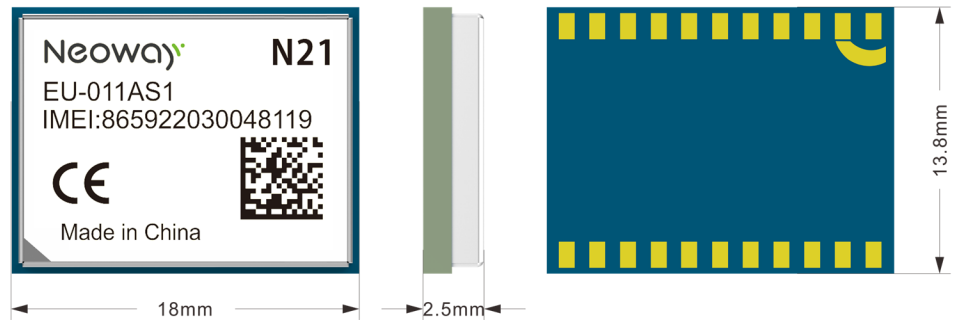
N21 series can be used in most regions including Asia, Europe, Australia and other areas where NB-IoT networks are deployed.

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

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



### Specifications

Bands	CN	B3, B5, B8
	EU	B3, B5, B8, B20, B28
Supply voltage	3.1 to 4.3 V(DC), Typ: 3.6V	
Power consumption	< 4uA @ PSM	
	< 2mA @ Idle mode	
Operating temperature	-30°C to +75°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	

### Features

Data rate	Max. 32Kbps (DL) / 72Kbps (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, STATUS, VCCIO, WAKEUP

### 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

### Certification Approvals

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

\* indicates in development

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