NEOWAY N717-EA

Ideal solution
for IoT Applications

- LTE Cat 1 module optimized for M2M and IoT applications
- AT Standard version with cellular network connection and 2G backward.
- B31 Band Support for Smart Meter or Industrial Market

Chipset
ASR 1603s

Operating temperature
-40°C to +85°C, industrial grade

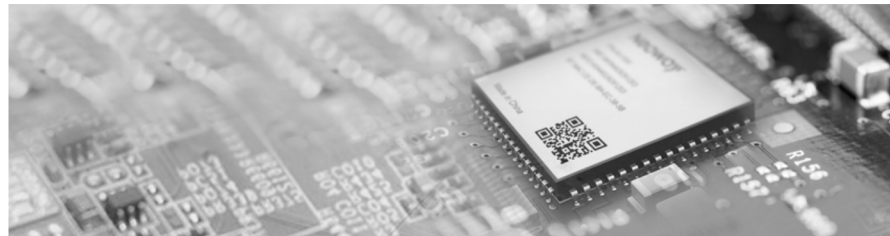### Various protocols
TCP/IP/UDP IoT protocols

Compact package
LGA package
29 mm × 25 mm × 2.35 mm

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

N715-EA is Neoway 2nd-Generation LTE Cat.1 module that specifically support Band31 connection and 2G network. Which would be much suitable for the smart meter and Industrial market. It Adopts the 3GPP Rel.13 LTE technology, which could deliver 10Mbps downlink and 5Mbps uplink data rates.

This module has an excellent RF performance. It supports low power consumption and ultra wide operating temperature range. N717-EA supports various network protocols and provides industrial grade interfaces. N717-EA is an optimal option for energy metering, telematics, industrial router, industrial PAD, video surveillance, environmental monitoring, etc.

The N717-EA can be used in regions including European country where LTE networks are deployed.

neoway

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Specifications

N717-EA	LTE-FDD: B1, B3, B5, B7, B8, B20, B28, B31 LTE–TDD: B34, B40, B41
Supply voltage	3.4 to 4.2 V(DC), Typ.: 3.6V
Operating temperature	-40°C to +85°C
Dimensions	(29.0±0.1)mm× (25.0±0.1)mm× (2.35±0.15)mm
Package	LGA(126 pin)
Power consumption	TBD
AT	3GPP TS 27.007, 27.005 Neoway enhanced AT commands
CPU	ARM A5, 500 MHz main frequency
Memory	RAM: 128 Mb ROM: 64 Mb

Features

Data rate	GPRS: Max 85.6 kbps (DL)/Max 85.6 kbps (UL) FDD-LTE: Cat1, Max 10 Mbps (DL)/Max 5 Mbps (UL) TDD-LTE: Cat1, Max 8 Mbps (DL)/Max 2 Mbps (UL)
SMS	TEXT/PDU Point to Point/Cell Broadcast
Network protocols	TCP/UDP/MQTT/PPP/NTP/FTP /HTTP/ HTTPS/SSL/TLS
Firmware upgrade	Via USB or FOTA
USB Driver	Windows 7/8/8.1/10 Linux 2.6 ~ 4.4 Android 4.x/5.x/6.x/7.x/8.x/9.x

Interfaces

POWER, PWRKEY_N, RESET_N

USB2.0, UART

PCM, I2C, GPIO

1.8V/3.0V USIM interface

NET_LIGHT

Cellular antenna interfaces

Enhanced Features

4G antenna, 50Ω characteristic impedance

Two UART interfaces, one of which supports hardware flow control

Two USIM interface, compatible with 1.8V/3.0V USIM cards

One USB2.0 high-speed interface

One I2C interface

Dual-USIM-single-standby (Optional)*

Differential Firmware Over-the-Air (DFOTA)

GPRS

VoLTE

MCU software OTA*

Certification Approvals

CE*, RoHS*

* indicates in development