

DATA SHEET NEOWAY N21 WIRELESS MODULE

KEY BENEFITS

High-performance, ultra-low power consumption NB-IoT module
Compliant to 3GPP Release 13, software upgradable to Release 14
The world's smallest LGA package NB-IoT module perfectly suited for applications with strict size requirement
Well applicable to IoT communications devices requiring low speed and low power consumption
Neoway enhanced AT commands
Enhanced PSM function for data fast recovery
Supporting FOTA-data update remotely

NETWORK

3GPP Protocol Stack Compliance	Release 13
Support for TS.34 IoT Communication Efficiency	Supported
Wireless Protocol Support	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
LPWA: LTE-M Bands	None
LPWA: NB-IoT Bands	B3, B5, B8, B20, B28
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
LPWA: LTE-M Category	None
LPWA: NB-IoT Category	NB1
Short Message Service (SMS)	None
Speech Codecs	None
Firmware Updates	FOTA, UART

Integrated Positioning Technology

GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
Regulatory	
eCall	None
Standalone / Assisted GNSS	None
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	18.0 × 13.8 × 2.5
Weight (g)	1.3
Operating Temperature – Extended Operation (°C)	-30 - +85 / -40 - +85
Supply Voltage Range (V)	3.1 – 4.3
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	None
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3 V
ADC and I2C	None
Serial Interfaces 1.8 V (including automatic baud rate detection)	Supported
Digital Audio, prepared for Analog Audio	None



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	18.09.2019 (N21_RDD0CM_BZ_V006)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Limited (issues with network scan, release assistant indication)
Deutsche Telekom Affiliate Country Codes	
AL	Telekom Albania
AT	T-Mobile Austria GmbH
CZ	T-Mobile Czech Republic a.s.
DE	Telekom Deutschland GmbH
GR	COSMOTE Mobile Telecommunications S.A.
HR	Hrvatski Telekom d.d.
HU	Magyar Telekom Telecommunications plc
ME	Cmogrski Telekom a.d. Podgorica
MK	Makedonski Telekom AD - Skopje
NL	T-Mobile Netherlands B.B.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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