

DATA SHEET NEOWAY N20 WIRELESS MODULE

KEY BENEFITS

High-performance, ultra-low power consumption NB-IoT (Cat NB1)/eMTC (Cat M1)/EDGE module based on Qualcomm platform

LCC package with compact size perfectly suited for applications with strict size requirement

Supports GNSS and various hardware interfaces for easy development

Well applicable to IoT communications devices requiring low speed and low power consumption

Neoway enhanced AT commands

NETWORK

3GPP Protocol Stack Compliancy	Release 13
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
LTE-M	Supported *
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	900 / 1800
3G Bands (MHz)	None
4G Bands (MHz)	None
LTE-M Bands (MHz)	B1, B3, B8, B20, B28 *
NB-IoT Bands (MHz)	B1, B3, B8, B20, B28
3GPP Classes / Categories	
CSD	None
GPRS Multislot Class (DL/UL)	33
EDGE Class (DL/UL)	33
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
LTE-M Category	M1*
NB-IoT Category	NB1
Short Message Service (SMS)	Text, PDU
Speech Codecs	None
Firmware Updates	USB

Integrated Positioning Technology

GPS	Optional
GLONASS	Optional
Control Plane A-GPS Support	None
SUPL A-GPS Support	None

Regulatory

eCall	None
Standalone / Assisted GNSS	Optional (GPS, GLONASS)
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	25.8 x 23.8 x 2.8
Weight (g)	ca. 1.0
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.3 - 4.3
Interfaces	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	None
GPIO Lines	Supported, 4x
UICC and U/SIM (1.8 V/3 V)	1.8 V / 2.85 V
Module ON/Reset	Supported
ADC and I2C	Supported
4-Wire HS Serial Interfaces SCA1	None
Analog Audio	None
Digital Audio	None



LIFE IS FOR SHARING.

DATA SHEET NEOWAY N20 WIRELESS MODULE

CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	30.07.2018 (N20_EBC0CM_BZ_V001)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Limited (GCF report not available, resolution of chipset-specific issue necessary, as per technical report)
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	Comrgski 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.



CONTACT

Deutsche Telekom AG
Friedrich-Ebert-Allee 140
53113 Bonn
iot-device-support@telekom.de



LIFE IS FOR SHARING.