

DATA SHEET USR (WENHENG) WH-NB71 WIRELESS MODULE

KEY BENEFITS

Super small encapsulation size: 17.5 x 15 mm ²
SMT surface-mount technology package
Extended temperature range: -30°C - +85°C at full performance, down to -40°C at reduced performance

NETWORK

3GPP Protocol Stack Compliancy	Release 13
Support for TS.34 IoT Communication Efficiency	Radio Policy Manager (RPM) available
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
NB-IoT	B1, B2, B3, B5, B8, B20
3GPP Classes / Categories	
GPRS Multislot Class (DL/UL)	None
EDGE Class (DL/UL)	None
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1 (100 kbps, 100 kbps)
Short Message Service (SMS)	Text, PDU mode
Speech Codecs	None
Firmware Updates	UART, FOTA
Protocol Support	CoAP, UDP, IPv4/6, LwM2M, Non-IP
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)	17.5 x 15.0
Weight (g)	1.2
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.1 – 4.2 (3.8 V recommended)
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V / 3 V
Module ON / Reset	Supported
ADD and I ² C	None
4-Wire HS Serial Interfaces SCA1	None
Analog Audio	None
Digital Audio	None



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	26.10.2018 (V150R100C20B300SP2)
Certified Deutsche Telekom Affiliates	AT, CT, D, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Limited (GCF certification outstanding; resolution of chipset-specific issues 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	Comorgski 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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