

DATA SHEET ADVANTECH WISE-1570 WIRELESS MODULE

KEY BENEFITS

ARM Cortex-M4 Core Processor
Compliant with 3GPP R14 NB-IoT standard
Integrated with WISE-PaaS/RMM & MBED Cloud Service
Rich interface for sensor and I/O control
Support wide temperature range: -40 to 85 °C

NETWORK

3GPP Protocol Stack Compliancy	Release 13/14
Support for TS.34 IoT Communication Efficiency	RPM - 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	None
4G Bands	None
NB-IoT Bands (MHz)	B1, 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 (DL/UL)	None
NB-IoT Category	NB1
Short Message Service (SMS)	None
Speech Codecs	None
Protocol Support	CoAP, UDP, TCP, IPv4/6
Firmware Updates	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 mm)	22 x 30
Weight (g)	3,0
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.3
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	6
UICC and U/SIM (1.8 V/3 V)	3 V
ADC and I2C	(3) ADC, (2) I2C
4-Wire HS Serial Interfaces ASC1	None
Serial Interfaces 1.8 V (including automatic baud rate detection)	None
Digital Audio, prepared for Analog Audio	None



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	22.07.2019 (V150R100C20B300SP5)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, HU, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	Limited
Deutsche Telekom Affiliate Country Codes	
AT	Magenta Telekom 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	Cmorgski 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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