

DATA SHEET MEDIATEK MT2625 WIRELESS MODULE

KEY BENEFITS

Industry's Smallest NB-IoT Module (16 mm x 18 mm) with integrated PMU, Baseband, RF, Modem DSP
Ultra-low power, 3GPP Release-13/14 (ready) NB-IoT platform for wide-ranging home, civic, industrial or mobile applications
Single Core ARM Cortex-M (104 MHz) with FPU + 4 MB PSRAM + 4 MB NOR Flash
Global Radio Frequency Support: 450-2100 MHz
Multi IO Interface support: I2C, I2S, PCM, SDIO, UART
With a Real time operation system (RTOS), it's easily customizable for applications such as home automation, cloud beacons, smart metering etc.
Future proof with OTA upgrade

NETWORK

3GPP Protocol Stack Compliancy	Release 13 (Rel. 14 ready. New firmware required.)
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	None
3G/UMTS	None
4G/LTE	None
eMTC	None
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz) *	B1, B2, B3, B4, B5, B8, B11, B12, B13, B17, B18, B19, B20, B21, B25, B26, B28, B31, B66, B70, B71
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

* Only B8 (900 MHz) and B20 (800 MHz) explicitly verified during DT validation

** SMS is not supported on the Deutsche Telekom NB-IoT network

*** LWM2M, MQTT-SN, COAP not verified during certification

NB-IoT Category	NB1
Short Message Service (SMS) **	Text, PDU mode
Speech Codecs	None
Protocol Support	UDP, TCP, LWM2M2), MQTT-SN2), COAP2), Non-IP, IPv4, IPv4v6, IPv6 ***
Firmware Updates	Over-the-air update service (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 / SOFTWARE

Operating System	Free RTOS
CPU	
Clock Speed	104 MHz
Cores	ARM Cortex M
Security Features	
Secure Boot	Supported
HW Crypto Engine	Supported; AES 128/192/256; CB/CBC; DES/MD5; SHA1/224/256/384/512
Wireless Protocol Security	Supported; TLS1.2, AES/ECC
Secure Debug	Supported
Secure Storage / Key Provisioning	Supported.
Supplier Features	Anti-Clone Protection; Secure FOTA; SW Anti-Rollback; Random HW ID; JTAG Password Disable; Disable Flash Tool Function

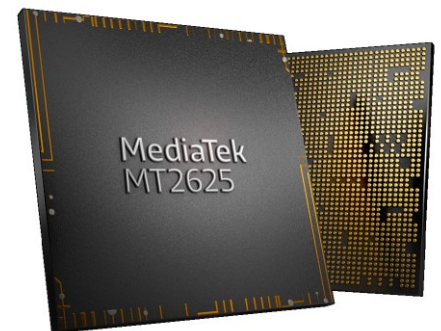


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CERTIFICATION DETAILS

Deutsche Telekom Certification Date (Initial Firmware)	04.09.2018, geneva-mp3-nb.V1.2.0, (2625_20180608_190605)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Full certification (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	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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