

DATA SHEET MEDIATEK MT2625 WIRELESS CHIPSET

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 Compliance	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
LTE-M	None
NB-IoT	Supported
Frequency Band Support	
2G Bands (MHz)	None
3G Bands (MHz)	None
4G Bands (MHz)	None
LTE-M (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
LTE-M Category	None
NB-IoT Category	NB1
Short Message Service (SMS)	Text, PDU mode

Speech Codecs	None
Protocol Support	UDP, TCP, LWM2M, MQTT-SN, CoAP, Non-IP, IPv4, IPv4v6, IPv6
Firmware Updates	Supported
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	ARM Cortex-M 104 MHz
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

1) Device not certified by Deutsche Telekom for LTE-M deployment



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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	04.06.2019 (geneva-mp3-nb.V1.9.0)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, HU, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	Full
Deutsche Telekom Affiliate Country Codes	
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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