

# DATA SHEET QUALCOMM

## MDM9206 WIRELESS MODULE

### KEY BENEFITS

Gobal multi-mode connectivity solution for IoT, supporting 15 LTE spectrum bands
One hardware design, supporting the high reliability, low latency, and voice support of LTE Cat. M1 (eMTC) with the extended coverage and delay tolerance of Cat. NB1 (NB-IoT), together with EGPRS
Integrated GNSS (GPS, GLONASS, BeiDou/Compass, Galileo, QZSS)
Single SKU allowing device manufacturers to support ultra-low power consumption and cost-optimized solutions of carriers/end-users worldwide
Futureproof with OTA upgrade

### NETWORK

<b>3GPP Protocol Stack Compliancy</b>	Release 13
<b>Support for TS.34 IoT Communication Efficiency</b>	None
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
eMTC	Supported *
NB-IoT	Supported
<b>Frequency Band Support</b>	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	None
4G Bands (MHz)	None
eMTC Bands (MHz) *	B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28
NB-IoT Bands (MHz)	B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	33
EDGE Class (DL/UL)	33
HSDPA Category (DL)	None
HSUPA Category (UL)	None
eMTC Category	None
LTE Category	M1 *

NB-IoT Category	NB1 (27.2 kbps, 62.5 kbps)
<b>Short Message Service (SMS) *</b>	Text, PDU
<b>Speech Codecs</b>	None
<b>Protocol Support</b>	UDP, TCP **
<b>Firmware Updates</b>	UART
<b>Integrated Positioning Technology</b>	
GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	None
Standalone / Assisted GNSS	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS
TTY	None

### HARDWARE / SOFTWARE

<b>Operating System</b>	Linux, ThreadX
<b>CPU</b>	
Clock Speed	1.3 GHz
Cores	ARM Cortex A7
<b>Security Features</b>	
Secure Boot	Supported; tamper-resistant root of trust in ROM or e-fuses
HW Crypto Engine	Supported; FIPS certified
Wireless Protocol Security	WAN security, TLS
Secure Debug	Supported; e-fuse, support for secure RMA
Secure Storage / Key Provisioning	Supported; OTP e-fuse memory for key storage, en-crypted storage-capable, key provisioning.
Supplier Features	Qualcomm® Trusted Execution Environment

\* Device not certified by Deutsche Telekom for eMTC (LTE Cat-M1) deployment

\*\* TCP mode not verified during certification



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## CERTIFICATION DETAILS

Deutsche Telekom Certification Date (Initial Firmware)	24.09.2018, (TX3.0 MPSS.JO.3.0.3-00156-9607_LTENBG_PACK-1)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	<b>Full certification</b> (AT, CZ, DE, NL, PL, SK)
<b>Deutsche Telekom Affiliate Country Codes</b>	
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	Cmogrski 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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