

DATA SHEET CHEERZING ML5535-G8 WIRELESS MODULE

KEY BENEFITS

Ultra-Small: 16 x 18 x 2.55 mm ³
LCC package
Ultra-Low sleep power
Extended temperature range: -35..+75 °C at full performance, -40..+85 °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 Bands (MHz)	800, 900, 1800
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
NB-IoT Category	NB1 (100 kbps, 100 kbps)
Short Message Service (SMS)	PDU mode
Speech Codecs	None
Protocol Support	IPv4, IPv6, TCP, UDP, CoAP, LwM2M, Non-IP, DTLS
Firmware Updates	UART FOTA
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)	16 x 18 x 2.5
Weight (g)	Not Available
On-board Memory	None
Operating Temperature – Extended Operation (°C)	-35..+75 °C / -40..+85 °C full/reduced performance
Supply Voltage Range (V)	3.1 - 4.2 (3.6 V typical)
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
ADC and I2C	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)	23.10.2018 (ML5535-X0_1.1.4.109_18)
Certified Deutsche Telekom Affiliates	AT, CT, DE, HR, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
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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