

DATA SHEET CHEERZING ML5515 WIRELESS MODULE

KEY BENEFITS

LCC-LGA form factor package with integrated eSIM
Ultra-low power performance for demanding M2M applications
Multiple band support: B1, B3, B5, B8, B20, B28
Operation in wide temperature range: -40 to 85 °C

NETWORK

3GPP Protocol Stack Compliance	Release 13
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, 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

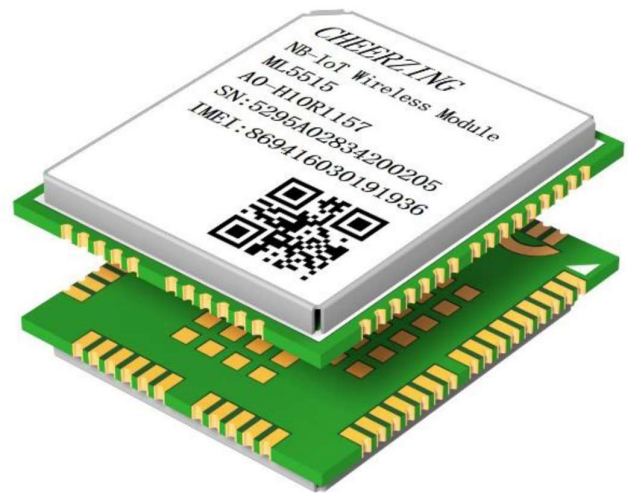
TTY	None
HARDWARE	
Dimensions (L x W mm)	19.9 x 23.6
Weight (g)	2.4
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.8
Interfaces	
USB 2.0 (480 Mbps)	None
ASC0 HS Serial Modem	None
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8, 3.0 V
ADC and I2C	(1) ADC, I2C
4-Wire HS Serial Interfaces ASC1	None
Module ON / Reset	Supported
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 (AO_1.3.4.203_18110916_R)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, 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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