

# DATA SHEET U-BLOX MPC8-L210 WIRELESS MODULE

## KEY BENEFITS

Powerful LTE modules in industry-standard Mini PCIe package
Highest throughput of up to 150 Mb/s with LTE Cat 4
Deliver critical firmware updates over the air
Manufactured in ISO/TS 16949 certified production sites
Extreme operating temperature range -40 °C to +85 °C

## NETWORK

<b>3GPP Protocol Stack Compliance</b>	Release 9
<b>Support for TS.34 IoT Communication Efficiency</b>	Radio Policy Manager (RPM)
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
NB-IoT	None
<b>Frequency Band Support</b>	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	850, 900, 1900, 2100
4G Bands (MHz)	B1, B3, B5, B7, B8, B20
NB-IoT Bands (MHz)	None
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	12 (85.6/85.6) kbit/s
EDGE Class (DL/UL)	12 (236.8/236.8) kbit/s
HSDPA Category (DL)	24 (42) Mbit/s
HSUPA Category (UL)	6 (5.6) Mbit/s
LTE Category	4
NB-IoT Category	None
<b>Short Message Service (SMS)</b>	Yes
<b>Speech Codecs</b>	None
<b>Firmware Updates</b>	FOTA, UART
<b>Integrated Positioning Technology</b>	
GPS	None
GLONASS	None
Control Plane A-GPS Support	None
SUPL A-GPS Support	None
<b>Regulatory</b>	
eCall	None
Standalone / Assisted GNSS	None

TTY	None
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## HARDWARE

Dimensions (L x W x H, mm)	45.25 x 30 x 3.7
Weight (g)	9.7
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.0 – 3.59
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	None
GPIO Lines	None
UICC and U/SIM (1.8 V/3 V)	1.8 V, 3 V
ADC and I2C	None
Serial Interfaces 1.8 V (including automatic baud rate detection)	None
Digital Audio, prepared for Analog Audio	None



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## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	31.05.2019 (16.19A01.02)
Certified Deutsche Telekom Affiliates	AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	<b>Limited</b>
<b>Deutsche Telekom Affiliate Country Codes</b>	
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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