

DATA SHEET SIERRA WIRELESS AIRPRIME MC7710 WIRELESS MODULE

Key Benefits

Compact, lightweight, wireless LTE- and UMTS-based modem

Ideal for portable and handheld computers, point-of-sale devices, telemetry products and other M2M applications

Network

3GPP Protocol Stack Compliance	Release 8
Support for TS.34 IoT Communication Efficiency	None
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
Frequency Band Support	
2G Bands (MHz)	900, 1800, 1900
3G Bands (MHz)	900, 2100
4G Bands (MHz)	800, 900, 1800, 2100, 2600
3GPP Classes/Categories	
CSD	V.110 (9.6 kbps)
GPRS Multislot Class (DL/UL)	10 (64.2 kbps, 42.8 kbps)
EDGE Class (DL/UL)	12 (237 kbps, 237 kbps)
HSDPA Category (DL)	24 (42.2 Mbps)
HSUPA Category (UL)	6 (5.76 Mbps)
LTE Category	3 (100 Mbps, 50 Mbps)
Short Message Service (SMS)	Supported (Text, PDU, Cell Broadcast)
Speech Codecs	FR, HR, EFR, AMR
Firmware Updates	Cable
Positioning Support	
GPS	Supported
GLONASS	None
Control Plane A-GPS Support	Supported
SUPL A-GPS Support	Supported

Regulatory

eCall	Supported
Standalone/Assisted GNSS	None
TTY	None

Hardware

Dimensions (L x W x H, mm)	50.95 x 30 x 4.75
Weight (g)	10
On-board Memory	Supported
Operating Temperature – Extended Operation (°C)	-40 °C to +85 °C
Supply Voltage Range (V)	3.2 – 4.5

Interfaces

USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	Supported
GPIO Lines	Supported
UICC and U/SIM (1.8 V/3 V)	1.8 V/3 V
Module ON/Reset	Supported
ADC and I ² C	Supported
4-Wire HS Serial Interfaces ASC1	Supported
Analog Audio	None
Digital Audio	Supported



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Certification Details

GMA Certification	Yes
Deutsche Telekom Certification Date (Initial Firmware)	03.00.11.00 (20.01.2012)
Certified Deutsche Telekom Affiliates	AL, AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	DTAG IDU-TIV
DT Certification Type (Conditions)	Full (Limited implementation of DT modem settings requirements)
Deutsche Telekom Certification Date (Firmware Update 1)	03.05.20.03A (29.11.2013)
Deutsche Telekom Certification Date (Firmware Update 2)	03.05.26.00 (14.03.2014)

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	Crnogorski Telekom a.d. Podgorica
MK	Makedonski Telekom AD – Skopje
NL	T-Mobile Netherlands B.V.
PL	T-Mobile Polska S.A.
RO	Telekom Romania Mobile Communications S.A.
SK	Slovak Telekom, a.s.



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