

DATA SHEET SIERRA WIRELESS AIRPRIME WP7607-1 WIRELESS MODULE

KEY BENEFITS

Compact CF3® design to migrate between technologies and future-proof product designs.

Dedicated ARM core application processor running Legato® open source software

mangOH® reference designs enable rapid prototyping and proof of concepts

Industrial grade. Tested in harsh environments and extreme temperatures

Voice call and SMS (Text/PDU format) support

NETWORK

3GPP Protocol Stack Compliance	Release 10
Support for TS.34 IoT Communication Efficiency	RPM – optional
Wireless Protocol Support	
2G/GPRS	Supported
3G/UMTS	Supported
4G/LTE	Supported
NB-IoT	None
Frequency Band Support	
2G Bands (MHz)	900, 1800
3G Bands (MHz)	B1, B8
4G Bands (MHz)	B1, B3, B7, B8, B20, B28
NB-IoT Bands (MHz)	None
3GPP Classes / Categories	
CSD	Supported (up to 64 kbps)
GPRS Multislot Class (DL/UL)	10 (85.6 kbps, 42.8 kbps)
EDGE Class (DL/UL)	12 (236.8 / 236.8 kbps)
HSDPA Category (DL)	24 (42 Mbps)
HSUPA Category (UL)	6 (5.76 Mbps)
LTE Category	1 (10 / 5 Mbps)
NB-IoT Category	None
Short Message Service (SMS)	Text, PDU
2G Speech Codecs	GSM FR, GSM HR, GSM EFR, FR AMR, HR AMR, FR AMR-WB
3G Speech Codecs	UMTS AMR, UMTS AMR2, UMTS AMR-WB
Firmware Updates	FOTA
Integrated Positioning Technology	
GPS	Optional
GLONASS	Optional
Control Plane A-GPS Support	Optional
SUPL A-GPS Support	None

Regulatory

eCall	None
Standalone / Assisted GNSS	Optional
TTY	None

HARDWARE

Dimensions (L x W x H, mm)	23.0 x 22.0 x 2.5
Weight (g)	2.6
Operating Temperature – Extended Operation (°C)	-40 to +85
Supply Voltage Range (V)	3.3 - 4.6

Interfaces

USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	None
GPIO Lines	18 pins
UICC and U/SIM (1.8 V/3 V)	Supported 1.8 V, 3 V
ADC and I2C	Supported
Serial Interfaces 1.8 V (including automatic baud rate detection)	Supported
Digital Audio, prepared for Analog Audio	Supported

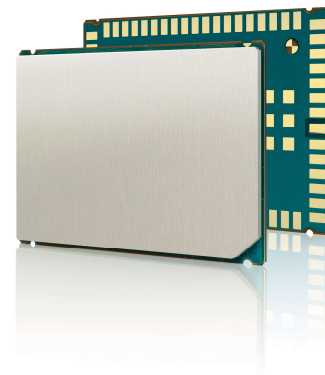


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CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	SWI9X07Y_02.18.05.00
Certified Deutsche Telekom Affiliates	AT, CZ, DE, GR, HR, HU, ME, MK, NL, PL, RO, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	Full
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	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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