

# DATA SHEET SIERRA WIRELESS AIRPRIME WP7702 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
Ultra-Low Power Mode - Reduce power consumption by 200x for battery or solar powered applications
Tested for harsh environments and extreme temperatures (-40°C / +85°C)

## NETWORK

<b>3GPP Protocol Stack Compliance</b>	Release 13
<b>Support for TS.34 IoT Communication Efficiency</b>	None
<b>Wireless Protocol Support</b>	
2G/GPRS	Supported
3G/UMTS	None
4G/LTE	None
NB-IoT	Supported
<b>Frequency Band Support</b>	
2G Bands (MHz)	850, 900, 1800, 1900
3G Bands (MHz)	None
4G Bands (MHz)	None
NB-IoT Bands (MHz)	B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28
<b>3GPP Classes / Categories</b>	
CSD	None
GPRS Multislot Class (DL/UL)	12
EDGE Class (DL/UL)	12
HSDPA Category (DL)	None
HSUPA Category (UL)	None
LTE Category	None
NB-IoT Category	NB1
<b>Short Message Service (SMS)</b>	Text, PDU
<b>Speech Codecs</b>	None
<b>Protocol Support</b>	UDP, TCP, MQTT, LWM2M, M3DA etc. via Legato framework
<b>Firmware Updates</b>	UART, USB, FOTA
<b>Integrated Positioning Technology</b>	
GPS	Supported
GLONASS	Supported
Control Plane A-GPS Support	Supported

SUPL A-GPS Support	Supported
<b>Regulatory</b>	
eCall	Supported
Standalone / Assisted GNSS	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS
TTY	None

## HARDWARE

Dimensions (L x W x H, mm)	22.0 x 23.0 x 2.5
Weight (g)	2.6
On-board Memory	Flash: 256 MByte for MCU (512 MByte total) RAM: 128 MByte for MCU (250 MByte total)
Operating Temperature – Extended Operation (°C)	-30 to +70 (full performance) -40 to +85 (reduced performance)
Supply Voltage Range (V)	3.4 - 4.3
<b>Interfaces</b>	
USB 2.0 (480 Mbps)	Supported
ASC0 HS Serial Modem	Supported
GPIO Lines	19 pins
UICC and U/SIM (1.8 V/3 V)	Supported 1.8 V
ADC and I2C	Supported
Module ON / Reset	Supported
Digital Audio, prepared for Analog Audio	PCM or I2S via 4-Wire

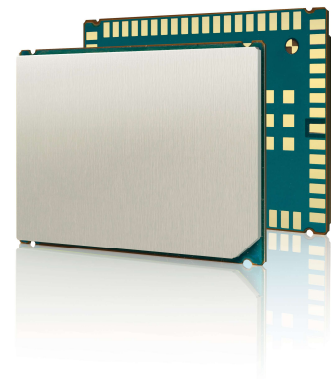


LIFE IS FOR SHARING.

# DATA SHEET SIERRA WIRELESS AIRPRIME WP7702 WIRELESS MODULE

## CERTIFICATION DETAILS

GMA Certification	None
Deutsche Telekom Certification Date (Initial Firmware)	SWI9X06Y_02.22.02.00
Certified Deutsche Telekom Affiliates	AT, CZ, DE, HR, NL, PL, SK
Certifying Entity	DTAG ITS-IVA
DT Certification Type (Conditions)	<b>Limited</b>
<b>Deutsche Telekom Affiliate Country Codes</b>	
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	Cmogrski 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.



## CONTACT

Deutsche Telekom AG  
Friedrich-Ebert-Allee 140  
53113 Bonn  
[iot-device-support@telekom.de](mailto:iot-device-support@telekom.de)



LIFE IS FOR SHARING.