



Air Interface: Cat-M1,Cat-NB1

Region: Global

Carrier: AT&T,Sierra Wireless,T-Mobile,Verizon

AirPrime WP7702 LPWA Module

Offering Low-Power Wide-Area (LPWA) LTE-M / NB-IoT connectivity with 2G fallback for any cellular network in the world

The WP7702 module for Cat-M1/NB1 worldwide networks is fully compliant with the 3GPP Release 13 standard, providing a new low-cost, low-power technology for low-bandwidth IoT applications with extended reach beyond traditional cellular.

Delivering up to 300Kbps download speed and 375Kbps upload speed, this module is ideal for real-time fixed or mobile applications such as consumer wearables, health monitoring devices, tracking devices, and smart home and smart city devices to name a few.

Design now with 4G LTE-M modules in the CF3® form factor and scale to 2G, 3G, or 4G networks in the future as the application evolves.

Technical Specifications

4G LTE

Category	Cat-M1/NB1
Frequency Bands	B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28

2G

EDGE, GSM, GPRS	850, 900, 1800, 1900
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DATA SPEED

Peak Download Rate	Cat-M1: 300kbps, Cat-NB1: 27kbps
Peak Upload Rate	Cat-M1: 375kbps, Cat-NB1: 65kbps

LOCATION SERVICES

Satellite Systems	Optional: GPS, Galileo, Glonass, BeiDou
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CORES

Application Core ARM®	ARM® Cortex™- A7 (1.3GHz)
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Telecom Core	QDSP6
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EMBEDDED SOFTWARE

Firmware	Secure boot, Pre-certified firmware
Embedded Platform	Legato® open source
Linux Distribution	Yocto, Long-term supported Linux Kernel (LTSI)
System Drivers	Windows® 7, Windows® 8, Windows® 10, Linux Driver: Standard ECM

INTERFACES

UART	2
USB	1
I2C	1
ADC	4
GPIO	18
Tx ON Indicator	1
SIM interface 1.8V/3V	1
SPI	1
SDIO	1
Flash LED output	1

HARDWARE

CF3 Form Factor LGA, Snap-in socket option

Dimensions 22x23x2.5mm

Temperature Range Industrial Grade: -40°C / +85°C

APPROVALS

Carrier AT&T, T-Mobile, Verizon, Sierra Wireless

Regulatory FCC, GCF, IC, PTCRB, RED

EMBEDDED SIM (Sierra Wireless USIM)
Optional Ready-to-Connect

OCTAVE ENABLED Variant available with Octave all-in-one edge-to-cloud solution