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.

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
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

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

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
Optional Ready-to-Connect

(Sierra Wireless USIM)

OCTAVE ENABLED

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