



Region: Americas

Air Interface: 4G LTE Cat-1

Carrier: Verizon,AT&T,T-Mobile,Sierra Wireless,Sprint (Data Only)

# AirPrime® WP7611-1 IoT Module

Optimized 4G LTE Cat-1 connectivity for public safety networks in North America

The WP7611-1 module is part of the WP Series offering a secure device-to-cloud architecture enabling IoT developers to build a Linux-based product on a single module – reducing overall system complexity and time-to-market.

This LTE Cat-1 wireless module is ideal for low-bandwidth IoT applications that require real-time communication along with the longevity and network quality that 4G LTE networks bring.

Delivering up to 10Mbps download speed, many organizations are using Cat-1 networks as a stepping stone to lowpower wide-area (LPWA) networks as 4G LTE can provide a superior user experience over 2G and 3G technologies.

## Technical Specifications

### 4G LTE

|                 |                                               |
|-----------------|-----------------------------------------------|
| Category        | Cat-1                                         |
| Frequency Bands | B2, B4, B5, B12, B13, B14, B25, B26, B66, B71 |

### 3G

|             |            |
|-------------|------------|
| HSPA+, UMTS | B2, B4, B5 |
|-------------|------------|

### DATA SPEED

|                    |         |
|--------------------|---------|
| Peak Download Rate | 10 Mbps |
| Peak Upload Rate   | 5 Mbps  |

### LOCATION SERVICES

|                   |                               |
|-------------------|-------------------------------|
| Satellite Systems | Galileo, Glonass, GPS, BeiDou |
|-------------------|-------------------------------|

### CORES

|                       |                      |
|-----------------------|----------------------|
| Application Core 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) |
|--------------------|------------------------------------------------|

|       |                                                                                        |
|-------|----------------------------------------------------------------------------------------|
| Audio | Codec: HR, FR, EFR, AMR, Digital Audio, DTMF, Echo Cancellation & Noise Reduction, PCM |
|-------|----------------------------------------------------------------------------------------|

|                |                                                                              |
|----------------|------------------------------------------------------------------------------|
| System Drivers | Windows® 7, Windows® 8, Windows® 10, Linux Driver: Standard ECM, Android RIL |
|----------------|------------------------------------------------------------------------------|

### INTERFACES

|                       |                        |
|-----------------------|------------------------|
| UART                  | 1 X 8-wire, 2 X 4-wire |
| USB                   | 1                      |
| I2C                   | 1                      |
| ADC                   | 2                      |
| GPIO                  | 8                      |
| Tx ON Indicator       | 1                      |
| SIM interface 1.8V/3V | 1                      |
| SPI                   | 1                      |

## HARDWARE

CF3 Form Factor LGA, Snap-in socket option

Dimensions 22x23x2.5mm

Antenna Diversity, MIMO

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

## APPROVALS

Carrier AT&T, T-Mobile, Verizon, Sierra Wireless, Sprint (Data Only)

Regulatory FCC, GCF, IC, PTCRB

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

CLOUD SERVICES Free Unlimited FOTA upgrades, Connectivity Management option, Device Management option

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