



Region: Americas
Air Interface: 4G LTE Cat-1
Planned Carrier: Sierra Wireless, Verizon, AT&T, T-Mobile, Sprint



AirPrime® RC7611-1 IoT Module

Optimized Cat-1 LTE connectivity for the Americas

The RC7611-1 module is part of the RC Series that lowers total cost of ownership (TCO) by offering a module with Ready-to-Connect embedded SIM to instantly connect devices anywhere in the world. The industrial-grade CF3® (Common Flexible Form Factor) footprint future-proofs designs, enabling you to build IoT products on the most scalable module platform in the world.

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 IoT projects requiring the speed between LPWA and Cat-4 technologies are using Cat-1 networks to future-proof their designs as 3G networks sunset.

Benefits



Ready-to-Connect

Access best-in-class connectivity, reduce total cost of ownership, and strengthen end-to-end security with Ready-to-Connect modules from the RC Series



Public Safety

Planned approval for AT&T FirstNet™ public safety network to enhance security and provide new capabilities for first responders



Common Form Factor

Compact CF3® design to migrate between technologies, expand globally, and future-proof product platforms



Cloud Connected

Securely collect data and remotely manage your IoT deployments with integrated AirVantage® cloud services



TCP/IP Stack

Embedded stack to easily communicate over the internet



FOTA Upgrades

FREE unlimited firmware over-the-air (FOTA) upgrades future-proof deployments and keep them secure



Programmability

Basic and Extended AT Commands simplify development



VoLTE

Enhance IoT applications with voice commands or call capabilities

Technical Specifications

4G LTE

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

DATA SPEED

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

LOCATION SERVICES

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|-------------------|---|
| Satellite Systems | Optional: GPS, Galileo, Glonass, QZSS, Beidou |
|-------------------|---|

EMBEDDED SOFTWARE

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|-------------------|---|
| Firmware | Secure boot, Pre-certified firmware |
| Embedded Platform | Legato® open source |
| Audio | Codec: HR, FR, EFR, AMR, Digital Audio, DTMF, Echo Cancellation & Noise Reduction, PCM, VoLTE |
| System Drivers | Windows® 10, Linux Driver: Standard ECM, Android RIL |

INTERFACES

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

HARDWARE

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|-------------------|---------------------------------|
| CF3 Form Factor | LGA, Snap-in socket option |
| Dimensions | 22x23x2.5mm |
| Antenna | Diversity, MIMO |
| Temperature Range | Industrial Grade: -40°C / +85°C |

APPROVALS

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|-----------------|--|
| Planned Carrier | AT&T, Sprint, T-Mobile, Verizon, Sierra Wireless |
| Regulatory | FCC, GCF, PTCRB |

EMBEDDED SIM

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| Optional Ready-to-Connect (Sierra Wireless USIM) |
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CLOUD SERVICES

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| Free Unlimited FOTA upgrades, Connectivity Management option, Device Management option |
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