



Region: Americas

Air Interface: 4G LTE Cat-12 with 3G fallback

Carrier: Verizon, Sprint, Telus, SouthernLINC, US Cellular, AT&T (FirstNet), Rogers, T-Mobile

AirPrime® EM7511 LTE-Advanced Pro Module for Public Safety Solutions

Embedded module approved by AT&T for the FirstNet™ public safety network

The EM7511 module offers unprecedented LTE speeds, bandwidth, and network performance on the M.2 form factor, enabling secure and reliable public safety communications on the FirstNet Band 14 spectrum.

Leveraging LTE-LAA and CBRS unlicensed bands and carrier aggregation, this LTE-Advanced Pro Cat-12 embedded module delivers up to 600Mbps downlink speed and 150Mbps uplink speed, with automatic fallback to 3G networks and integrated GNSS receiver (GPS, GLONASS, BeiDou, and Galileo satellite systems supported). EM7511 is ideal for public safety, industrial M2M, and mobile computing solutions.

Technical Specifications

4G LTE

Category	Cat-12
Frequency Bands	B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B18, B19, B20, B26, B29, B30, B32, B41, B42, B43, B46, B48, B66

3G

HSPA+	B1, B2, B4, B5, B6, B8, B9, B19
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DATA SPEED

Peak Download Rate	600 Mbps
Peak Upload Rate	150 Mbps

LOCATION SERVICES

Satellite Systems	Galileo, Glonass, GPS, BeiDou
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EMBEDDED SOFTWARE

Firmware	Secure boot, Pre-certified firmware
System Drivers	Windows® 8, Windows® 8.1, Windows® 10, Linux Driver: Standard ECM, Android RIL

INTERFACES

USB	USB 3.0, USB 2.0 High Speed
SIM interface 1.8V/3V	1

CONTROL OPTIONS	APIs, AT Commands
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HARDWARE

Dimensions	42x30x2.3mm
Antenna	Diversity, MIMO, GNSS Bias, Connectors: Main, Aux/GNSS, GNSS
Temperature Range	-30°C / +70°C, -40°C / +85°C

APPROVALS

Carrier	AT&T (FirstNet), Rogers, SouthernLINC, Sprint, T-Mobile, Telus, Verizon, US Cellular
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Regulatory FCC, GCF, IC, NCC, PTCRB

Connectivity Consumer and M2M eUICC