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.

Public Safety

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

Enhanced Coverage

Dual SIM single standby (DSSS) switches between networks quickly to stay connected

Network Switching

Switch networks anytime with up to three different certified firmware variants on board

Global

Worldwide coverage on a single module with industry and mobile network certifications to get you to market faster

Embedded SIM

Simplify and add flexibility to IoT deployments (optional)

FOTA Upgrades

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

Cloud Connected

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

Secure Boot

Prevent unauthorized code on the target to keep your connectivity secure

Location Services

GNSS receiver enables tracking and location-based services

TCP/IP Stack

Embedded stack to easily communicate over the internet

Programmability

Basic and Extended AT Commands simplify development

Industrial-Grade

Tested for harsh environments and extreme temperatures

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
DATA SPEED	
Peak Download Rate	600Mbps
Peak Upload Rate	150Mbps
LOCATION SERVICES	
Satellite Systems	Galileo, Glonass, GPS, Beidou
EMBEDDED SOFTWARE	
Firmware	Pre-certified firmware, Secure boot
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
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
Planned Carrier	Verizon
Regulatory	FCC, GCF, IC, NCC, PTCRB

*Future variant