



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Region: Americas

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

Carrier: AT&T

Planned Carrier: Verizon

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
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DATA SPEED

Peak Download Rate	600Mbps
Peak Upload Rate	150Mbps

LOCATION SERVICES

Satellite Systems	Galileo, Glonass, GPS, Beidou
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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