

**EM7590 LTE-Advanced Pro Module** 

**Reliable 4G LTE Advanced Pro Cat-13 module global connectivity with 3G fallback** The EM7590 wireless module is part of the EM Series delivering high speed connectivity and a wide selection of advanced air interfaces, including LTE Advanced with carrier aggregation. This LTE-A Cat-13 embedded module delivers 400 Mbps downlink and 150 Mbps uplink speed, supports private LTE bands and enables secure and reliable public safety communications on the FirstNet Band 14. Based on the PCI Express M.2 standard with USB 3.0 and USB 2.0 interfaces, the EM7590 module offers an easy upgrade path to new network technologies and global access to high speed networks. EM7590 is ideal for public safety, industrial M2M, and mobile computing solutions.

## Air Interface:

4G LTE Advanced Pro Cat-13 with 3G fallback

#### **Region:**

Global

## Carrier:

Global (AT&T (FirstNet), Verizon, T-Mobile, SouthernLINC, Orange, Telstra, Planned: NTT Docomo )

## CBRS

Certified by the FCC for CBRS private networks to provide reliability, security, flexibility, and cost savings

## Global

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

#### **Onboard SIM**

Embedded SIM to simplify and add flexibility to IoT deployments. Carrier profile, M2M eUICC, and consumer eUICC are available based on customer use case

#### **Location Services**

Integrated GNSS receiver enables tracking and location-based services for increased accuracy.

## **Enhanced Coverage**

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

# Secure Boot

Prevent unauthorized code on the target to keep your connectivity secure

### Industrial-Grade

Tested for harsh environments and extreme temperatures

# **Specifications**

Specifications			
4G LTE			
Category	Cat-13		
	2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B32, B38, B39, B40, B41, B42, B43, B48, B66, B71		
3G			
HSPA+	B1, B2, B4, B5, B6, B8, B9, B19		
DATA SPEED			
Peak Downloa	d Rate 400Mbps		
Peak Upload R	Rate 150Mbps		
LOCATION S	ERVICES		
Satellite System	ns GPS, Galileo, Glonass, Beidou		
EMBEDDED S	SOFTWARE		
Firmware	Secure boot, Pre-certified firmware		
System Drivers	s Windows® 10, Windows® 11, Linux (Driver: Open Source), Android RIL		
INTERFACES			
USB	USB 3.0, USB 2.0 High Speed		
SIM interface 1.8V/3V	2		
HARDWARE			
Dimensions	42x30x2.3mm		
Antenna	Diversity, MIMO, GNSS Bias, Connectors: Main, Aux/GNSS, GNSS		
Temperature F	Range -30°C / +70°C, -40°C / +85°C		
APPROVALS			
Carrier	AT&T (FirstNet), Verizon, T-Mobile, SouthernLINC, Orange, Telstra		

HARDWARE		
Planned Carrier	NTT Docomo	
Regulatory	FCC, IC, PTCRB, GCF, EU RED, JATE/Telec	
EMBEDDED SIM		
EMBEDDED SIM Onboard consumer eUICC (optional)		

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