

EM7595 LTE Advanced Pro Cat-12 Module

Reliable 4G LTE Advanced Pro Cat-12 module global connectivity with 3G fallback

The EM7595 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-12 embedded module delivers 600 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 EM7595 module offers an easy upgrade path to new network technologies and global access to high speed networks. EM7595 is ideal for public safety, industrial M2M, and mobile computing solutions.

Air Interface:

4G LTE Advanced Pro Cat-12 with 3G fallback

Region:

Global

Carrier:

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

4G LTE		
Category	Cat-12	
Frequency Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B29, B32, B38, B39, B40, B41, B42, B43, B48, B66, B71	
3 G		
HSPA+	B1, B2, B4, B5, B6, B8, B9, B19	
DATA SPEEI	D	
Peak Downloa	ad Rate	600Mbps
Peak Upload	Rate	150Mbps
LOCATION S	SERVI	CES
Satellite Syste	ems	GPS, Galileo, Glonass, Beidou
EMBEDDED	SOFT	WARE
Firmware		Secure boot, Pre-certified firmware
System Driver	rs	Windows® 10, Windows® 11, Linux (Driver: Open Source), Android RIL
INTERFACE	S	
USB		USB 3.0, USB 2.0 High Speed
SIM interface 1.8V/3V		
HARDWARE	2	
Dimensions	42	2x30x2.3mm
Antenna	D	viversity, MIMO, GNSS Bias, Connectors: Main, Aux/GNSS, GNSS
Temperature Range		30°C / +70°C, -40°C / +85°C
APPROVALS	5	

HARDWARE		
Planned Carrier	AT&T (FirstNet), Verizon, T-Mobile, SouthernLINC, Orange, Telstra, NTT Docomo	
Regulatory	FCC, IC, PTCRB, GCF, EU RED, JATE/Telec	
EMBEDDED SIM		
EMBEDDED SIM	Onboard consumer eUICC (optional)	