

INDUSTRIAL PRODUCT DATASHEET

LTE Cat 4 EC25-EMGA-mini-PCle

LTE Cat 4 EC25-EMGA-mini-PCle offering 2G/3G/4G connectivity, multi-GNSS, and low power consumption for industrial and IoT applications.

SKU

113991234

UPDATED

2026-07-09 08:23:11

PRICE

\$42.90(Excl. VAT)



Overview

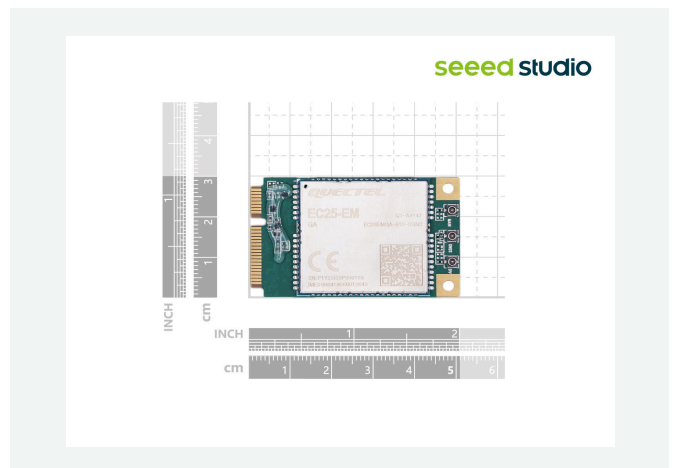
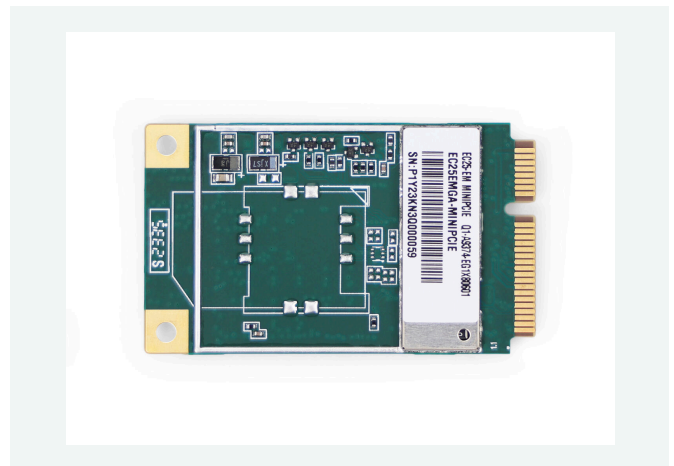


The LTE Cat 4 EC25-EMGA-mini-PCle is a plug-and-play wireless communication module in standard mini PCIe form factor, supporting 2G/3G/4G (LTE-FDD, WCDMA) and EMEA/Southeast Asia operators. It features built-in multi-GNSS (GPS/GLONASS/BDS/Galileo/QZSS), low power consumption (sleep 1.67 mA, idle 18.51 mA), and targets applications including industrial router, smart home, industrial automation, green energy, smart security, mobile gateway, personal tracking, and environmental monitoring.

Key Features

- **Plug-and-play LTE Cat 4 wireless communication module:** Support 2G/3G/4G communication, mounted with standard mini PCIe, ready to use
- **Broad network Compatibility and Applicability:** Supports various mobile communication network technologies, including LTE-FDD, WCDMA
- **Built-in multiple GNSS:** Includes GPS/GLONASS/BDS/Galileo/QZSS. Satisfies the need for fast and accurate positioning in different environmental conditions.
- **Low Power Consumption:** The power consumption of the sleep model is as low as 1.67 mA, and Idle power consumption as low as 18.51 mA
- **Support EMEA/Southeast Asia operators**

Product Gallery



Specification

Specification	Value
Cellular technology	LTE Cat 4
Region/Carrier	EMEA/Southeast Asia operators
Size	30.0 x 51.0 x 4.9 mm
Temperature range	● 35°C to +75°C (operating) ● 40°C to +80°C (extended)
Frequency band Information	LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8
GNSS support	GPS/GLONASS/BDS/Galileo/QZSS (optional)
Carrier Certification	-
Compulsory Authentication	Europe: CE* Australia/New Zealand: RCM*
Other Certification	RoHS/WHQL
Data rates	LTE-FDD (Mbps): 150 Mbps (downlink) / 50 Mbps (uplink) LTE-TDD (Mbps): 130 Mbps (downlink) / 30 Mbps (uplink) DC-HSPA+: 42 Mbps (downlink) / 5.76 Mbps (uplink) WCDMA: 384 kbps (downlink/uplink) EDGE: 296 Mbps (downlink) / 236.8 Mbps (uplink) GPRS: 107 Mbps (downlink) / 85.6 Mbps (uplink)
Voice codecs	HR/FR/EFR/AMR/AMR-WB
Echo algorithm	Echo cancellation/noise suppression
Voice services	Digital voice, VoLTE
USB to serial port driver	Windows 7/8/8.1/10/11, Linux 2.6~5.18, Android 4.x12.x
GNSS and RIL driver	Android 4.x~12.x
USB NDIS driver	Windows 7/8/8.1/10/11
USB GobiNet Driver	Linux 2.6~5.18
USB QMI_WWAN Driver	Linux 3.4~5.18
Power supply voltage	3.0~3.6V, typical value 3.3V
Power consumption (typical)	2.3 mA (sleep), 29.65 mA (idle)

Interface	Quantity
(U)SIM	1
USB 2.0	1
Digital audio (PCM)	1
I2C	1
LED_WWAN#	1
W_DISABLE#	1
UART	1
PERST#	1

Applications

- Industrial Router
- Smart Home
- Industrial Automation
- Green Energy
- Smart security
- Mobile gateway
- Personal tracking
- Environmental monitoring

Part List

LTE Cat 4 EC25-EMGA-mini-PCle	x 1
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Compliance & Logistics

HSCODE	8517799000
USHSCODE	8517620090
UPC	
EUHSCODE	8517180000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/LTE-Cat-4-EC25-EMGA-mini-PCle-p-5831.html>

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