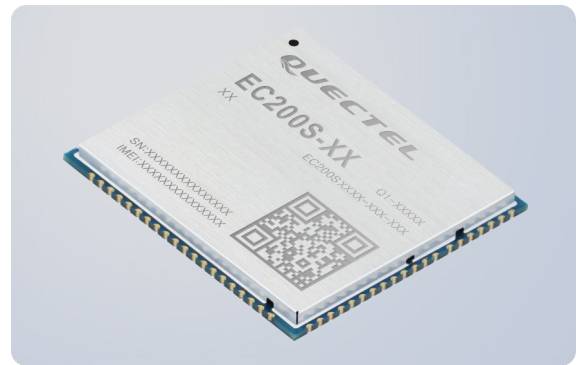


# Quectel EC200S-EN

IoT/M2M-optimized  
LTE Cat 1 Module



Quectel EC200S-EN is a series of LTE Cat 1 modules optimized specially for M2M and IoT applications. It delivers 10Mbps downlink and 5Mbps uplink data rates. Designed in compact and unified form factor, EC200S-EN is compatible with Quectel multi-mode LTE Standard EC2x(EC25/EC21/EC20 R2.0/EC20 R2.1), and UMTS/HSPA+ UC20/UC200T modules, which allows for flexible migration among them in design and manufacturing. EC200S-EN also supports standard Mini PCIe package to meet the needs of product applications in different industries.

EC200S-EN adopts the laser engraving process to ensure more good-looking appearance, strong metal texture, better heat dissipation, information not easy to be erased, and more suitable for automation requirements.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 7/8/8.1/10, Linux, Android) extend the applicability of the module to a wide range of M2M and IoT applications such as industrial router, industrial PDA, rugged tablet PC, video surveillance, and digital signage.



## Key Benefits

- ✓ LTE Cat 1 module optimized for M2M and IoT applications
- ✓ LTE, and GSM/GPRS/EDGE coverage
- ✓ Support Firmware Upgrade Over-The-Air (FOTA)
- ✓ Super cost-effective



LTE Cat 1  
Max 10Mbps (DL)  
Max 5Mbps (UL)



LCC Package



FOTA



Embedded  
Abundant Protocols



Quectel Enhanced  
AT Commands



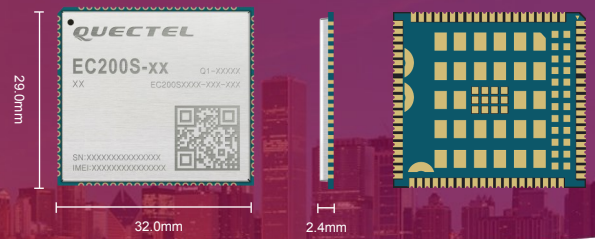
USB Drivers



USB 2.0 High Speed  
Interface

# Quectel EC200S-EN

## IoT/M2M-optimized LTE Cat 1 Module



### Europe:

#### EC200S-EN

LTE FDD: B1/ B3/ B5/ B7/ B8/ B20/B28/B31/B72\*

GSM: 900/1800MHz

### Data

#### LTE:

LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL)

#### GSM:

EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL)

GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)

### Interfaces

USB x 1: USB 2.0 with High Speed up to 480Mbps

Digital Audio through PCM Interface (Optional)

(U)SIM x 1: 1.8V/3.0V (U)SIM Interface

NETLIGHT x 2 (NET\_STATUS and NET\_MODE)

UART X 2: Main UART and Debug UART

ADC x 2

SDIO x 2 (for SD card\* and Wi-Fi\*)

RESET (Active low)

PWRKEY (Active low)

Solder Pads for Primary and Rx-diversity

Antennas

### Enhanced Features

FOTA (Firmware Upgrade Over-The-Air)

(U)SIM Card Detection

### Electrical Characteristics

#### Output Power:

Class 3 (23dBm±2dB) for LTE FDD bands

Class E2 (27dBm±3dB) for EGSM900 8-PSK

Class E2 (26dBm±3dB) for DCS1800 8-PSK

Class 4 (33dBm±2dB) for EGSM900

Class 1 (30dBm±2dB) for DCS1800

#### Consumption:

TBD

#### Sensitivity:

TBD

### Software Features

#### USB Serial Driver:

Windows 7/8/8.1/10,

Linux 2.6-5.4,

Android 4.x/5.x/6.x/7.x/8.x/9.x

RIL Driver: Android 4.x/5.x/6.x/7.x/8.x/9.x

RNDIS Driver:

Windows 7/8/8.1/10,

Linux 2.6-5.4

ECM Driver: Linux 2.6-5.4

#### Protocols:

TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/PING/CMUX/

HTTPS/FTPS/SSL/FILE/MQTT/MMS

### General Features

Temperature Range: -40°C ~ +85°C

Dimensions: 29.0mm × 32.0mm × 2.4mm

Weight: Approx. 4.4g

LCC Package

Supply Voltage: 3.4V~4.5V, 3.8V Typ.

Bandwidth: 1.4/3/5/10/15/20MHz

3GPP TS 27.007, 27.005 and Enhanced AT

Commands

### Approvals

#### EC200S-EN:

##### Regulatory:

CE\* (Europe)

##### Others:

RoHS Compliant

\* Under Development