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ComIoT 23
4G to USB Module

Product Specifications

- Quectel 4G LTE FDD/TDD Chipset

- Cost Effective Solution

- Multiple System Support

- Durable and Industrial Grade Design

- Embedded rich network protocols

Product Description

Com IoT23 series is a 4G industrial core module developed, designed and produced by Shenzhen Movingcomm Technology Co., Ltd. It is a highly integrated small 4G cat4 LTE module. Supporting a maximum downlink rate of 150 Mbps and a maximum uplink rate of 50 Mbps. It has good cost in performance. In addition, it is compatible with multi-network standards LTE and UMTS/HSPA+ and support seamless switching between 4G and 3G networks.

This modem in the module is based on the ASR chipset solution. It has rich network protocols, supports multiple drivers, and the USB drivers are suitable for Windows, Linux, Android and other operating systems. It is widely used in the Internet of Things fields such as equipment networking, unmanned self-service equipment, industrial routers, and Raspberry Pi applications. The sim card slot supports NANO SIM and featured with anti-wrong way insertion self-bouncing card slot, better quality and higher durability.

Com IoT23 series supports multiple Quectel module series: EC200T series, EC200S series, EC200A series and EC20 series, which can satisfy the frequency band coverage of different countries and regions.

Product Features

- LTE Cat 4 module optimized for M2M and IoT applications

- Worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage

- MIMO technology meeting demands for data rate and link

- reliability in modem wireless communication systems

- Super cost-effective

Hardware Specifications

General	
Size	66.2 x 30 x 7 mm
Modem	Quectel LTE Cat4 Chipset
Power Consumption	11 uA @ Power off 1.2 mA @ LTE Sleep (PF = 128) 1.1 mA @ LTE Sleep (PF = 256) 18 mA @ Idle
Antenna	1 x 4G Main 1 x 4G Aux 1 x GPS
Storage	128MB
SIM Card Slot	Nano SIM Card Slot
Operation Voltage	4.2V ~ 5.5V
Operation Temperature	-35 °C to +75 °C
Storage Temperature	-40 °C to +85 °C
Operating System	Support Windows, Linux, Android
Interface	USB 2.0, 5PIN
Communication Interface	USB, UART

| Cellular Specification		
LTE	LTE-FDD: Max 150Mbps (DL) / Max. 50Mbps (UL)	
	LTE TDD: Max 130Mbps (DL) / Max. 35Mbps (UL)	
DC-HSPA	Max 21Mbps (DL) / Max 5.76Mbps (UL)	
WCDMA	Max 384Kbps (DL) / Max 384Kbps (UL)	
GSM	EDGE: Max 296Kbps (DL) / Max. 236.8Kbps (UL)	
	GPRS: Max 107Kbps (DL) / Max. 85.6Kbps (UL)	
Frequency Band	CN	LTE FDD: B1/B3/B5/B8 LTE TDD: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8

	EU	LTE FDD: B1/B3/B7/B8/B20/B28 LTE TDD: B38/B40/B41 WCDMA: B1/B8 GSM: B1/B8
	AU	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 LTE TDD: B40 WCDMA: B1/B2/B4/B5/B8 GSM: B2/B3/B5/B8
Transmission Power		Class 3 (23dBm±2dB) for LTE FDD Class 3 (23dBm±2dB) for LTE TDD Class 2 (24dBm+1/-3dB) for TD-SCDMA Class 3 (24dBm+1/-3dB) for WCDMA Class 3 (24dBm+2/-1dB) for CDMA BC0 Class E2 (27dBm±3dB) for EDGE 900MHz Class E2 (26dBm±3dB) for EDGE 1800MHz Class 4 (33dBm±2dB) for GSM 900MHz Class 1 (30dBm±2dB) for GSM 1800MHz

Product View

Front
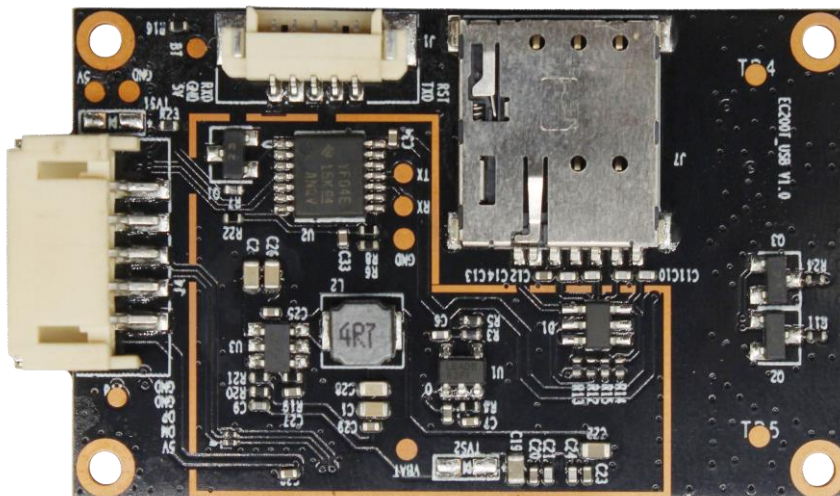
Back

Size and Dimension
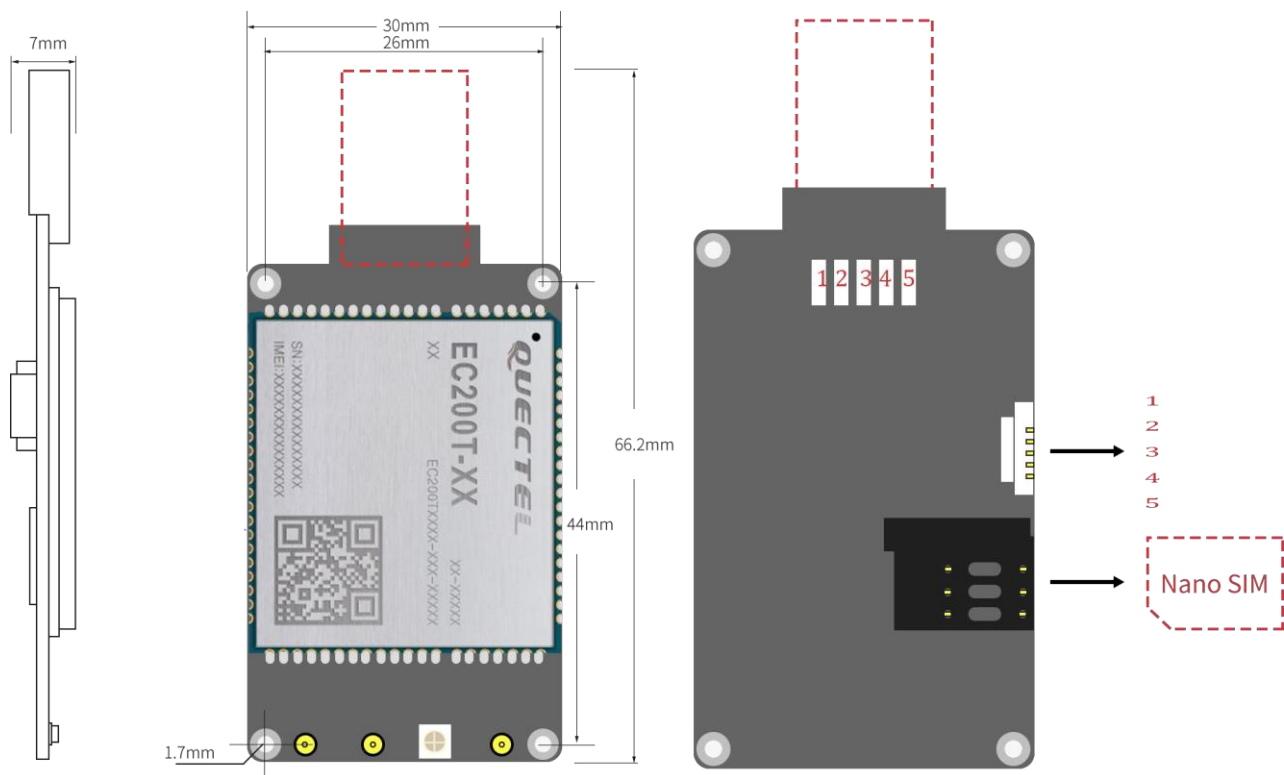
Pin Definition

USB	1	2	3	4	5
	VCC 5V	USB D-	USB D+	GND	GND

UART	1	2	3	4	5
	VCC 5V	GND	RXD	TXD	RST

Order Information

Model	Description
ComIoT 23 CN	CN Version
ComIoT 23 EU	EU Version
ComIoT 23 AU	AU Version

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