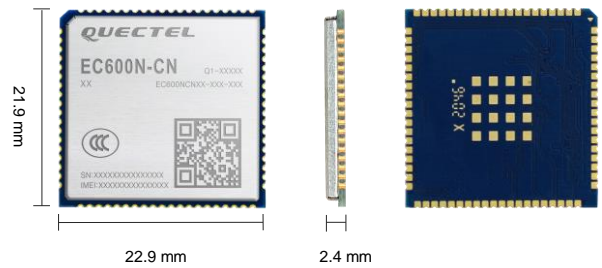




Quectel EC600N-CN

IoT/M2M-optimized
LTE Cat 1 Module



Quectel EC600N-CN is an LTE Cat 1 wireless communication module specially designed for M2M and IoT. It supports a maximum downlink rate of 10 Mbps and a maximum uplink rate of 5 Mbps. It has an ultra-small package and an ultra-high cost performance. At the same time, EC600N-CN is compatible with Quectel's EC600S-CN module in packaging.

EC600N-CN adopts the laser engraving process, which has the advantages of better appearance, strong metal texture, better heat dissipation, information not easily erased, and more suitable for automation needs.

EC600N-CN has built-in rich network protocols, integrates multiple industry standard interfaces, and supports multiple drivers and software functions (such as USB virtual serial port drivers under Windows 7/8/8.1/10, Linux, Android and other operating systems). It has expanded its application range in the M2M and IoT fields, such as OTT, CPE, POS, data cards, security, and industrial PDAs.



Key Features

- ✓ Ultra-small size, specially designed for M2M and IoT applications, especially for small-size terminals
- ✓ Support OTA remote online upgrade, reduce later operation and maintenance costs
- ✓ Support Wi-Fi scan positioning
- ✓ Super cost-effective

 LTE Cat 1 Max. 10 Mbps (DL) Max. 5 Mbps (UL)	 LCC Package	 Embedded Multiple Network Protocols
 USB 2.0 High-speed interface	 USB Driver	 VoLTE
 Quectel Enhanced AT Command	 DFOTA	

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LTE Cat 1	EC600N-CN
Region/Operator	China/India
Package	LCC
Dimensions (mm)	21.9 × 22.9 × 2.4
Weight	Approx. 2.0 g
Temperature Range	
Operating Temperature	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C
Frequency Bands	
LTE-FDD	B1/B3/B5/B8
LTE-TDD	B34/B38/B39/B40/B41
GSM/EDGE	-
GNSS	-
Certifications	
Carrier	TBD
Regulatory	SRRC/NAL/CCC (China)
Others	WHQL
Data Rate	
LTE-FDD (Mbps)	10 (DL)/5 (UL)
LTE-TDD (Mbps)	7.5 (DL)/1 (UL)
EDGE (kbps)	-
GPRS (kbps)	-
Interfaces	
(U)SIM	× 1, 1.8/3.0 V
UART	× 2
USB 2.0	× 1
PCM (Digital Audio)	× 1
ADC	× 1, 10 bits
I2C	× 1
Analog Audio	× 1
Antenna	× 1
Voice	
Speech Codec Modes	MP3/AMR/WAV
Voice	Digital Audio and VoLTE (Voice over LTE)
Enhanced Features	
DTMF	●
DFOTA	●
Audio Playback/Audio Recording*	Optional
QuecLocator®	●
QuecFile®	●
(U)SIM Detection	●

Notes:

1. TBD: To Be Determined.
2. *: under development.
3. ●: supported.

Quectel EC600N-CN

LTE Cat 1	EC600N-CN
Drivers	
RIL Driver	Android 4.x–10.x
RNDIS Driver	Windows 7/8/8.1/10 Linux 2.6–5.10
ECM Driver	Linux 2.6–5.10
USB Serial Driver	Windows 7/8/8.1/10 Linux 2.6–5.10, Android 4.x–10.x
Electrical Features	
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V
Power Consumption (Typical)	20 μ A @ Power off 1.07 mA @ Sleep (LTE PF = 128) 0.99 mA @ Sleep (LTE PF = 256) 9.9 mA @ Idle (PF = 64 USB disconnected) 22.7 mA @ Idle (PF = 64 USB connected)