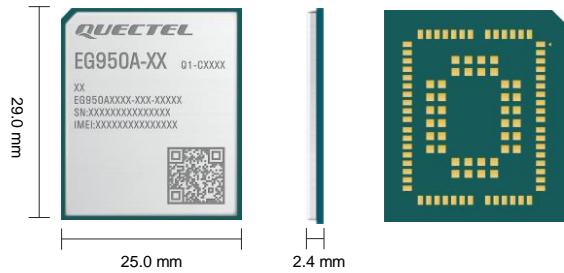


Quectel EG950A Series

IoT/ M2M-optimized LTE Cat 4 Module



Quectel EG950A is a series of LTE Cat 4 module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel-9 LTE technology, it delivers maximum data rates up to 150 Mbps downlink and 50 Mbps uplink. EG950A series is compatible with Quectel multi-mode LTE Standard EG91 and EG95 series modules.

EG950A series consists of two models: EG950A-EL and EG950A-LA, covering the frequency band of different countries and regions; EG950A series adopts the laser engraving process to ensure more good-looking appearance, strong metallic texture, better heat dissipation, durable label information, which makes it more suitable for automation requirements.

A rich set of network protocols, industry-standard interfaces, a variety of drivers and abundant functionalities (USB serial drivers for Windows 7/ 8/ 8.1/ 10/ 11, Linux, Android and other operating systems) extend the applicability of the module to a wide range of M2M applications, such as IPC, CPE and gateway.



Key Features

- ✓ LTE Cat 4 module optimized for M2M and IoT applications
- ✓ Worldwide LTE, UMTS/ HSPA+ coverage
- ✓ Support Firmware Upgrade Over-The-Air (DFOTA)
- ✓ MIMO technology meeting demands for data rate and link reliability in wireless communication systems
- ✓ Super cost-effective



LTE Cat 4
Max. 150 Mbps (DL)
Max. 50 Mbps (UL)



Max. 21 Mbps (DL)
Max. 5.76 Mbps (UL)



LGA Package



Embedded
Abundant Protocols



DFOTA



USB 2.0 High Speed
Interface



USB Drivers



Quectel Enhanced
AT Commands

Quectel EG950A Series

LTE Cat 4	EG950A-EL	EG950A-LA
Region/ Operator	Europe/ APAC	Australia/ New Zealand/ Latin America
Dimensions (mm)	29.0 × 25.0 × 2.4	29.0 × 25.0 × 2.4
Weight (g)	Approx. 3.74	Approx. 3.74
Temperature Range		
Operating Temperature Range	-35 °C to +75 °C	-35 °C to +75 °C
Extended Temperature Range	-40 °C to +85 °C	-40 °C to +85 °C
Frequency Bands		
LTE-FDD	B1/ 3/ 5/ 7/ 8/ 20/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
LTE-TDD	-	-
WCDMA	B1/ 5/ 8	B1/ 2/ 4/ 5/ 8
GNSS	GPS/ GLONASS/ BDS/ QZSS	-
Certifications		
Regulatory	Europe: CE Australia/ New Zealand: RCM The UK: UKCA	America: FCC* Brazil: Anatel*
Others	-	-
Data Rates		
LTE-FDD (Mbps)	150 (DL)/ 50 (UL)	150 (DL)/ 50 (UL)
LTE-TDD (Mbps)	-	-
DC-HSPA+ (Mbps)	21 (DL)/ 5.76 (UL)	21 (DL)/ 5.76 (UL)
WCDMA (kbps)	384 (DL)/ 384 (UL)	384 (DL)/ 384 (UL)
Interfaces		
(U)SIM	× 1	× 1
UART	× 2 (main, debug)	× 2 (main, debug)
USB 2.0	× 1	× 1
Audio Digital (PCM)	× 1	× 1
NET_STATUS	× 1	× 1
ADC	× 2	× 2
SDIO (for SD Card)	× 1	× 1
RESET_N	× 1	× 1
PWRKEY	× 1	× 1
SPI	× 1	× 1
I2C	× 1	× 1
Antenna	× 3 (main, Rx-diversity and GNSS antennas)	× 2 (main and Rx-diversity antennas)
Voice		
Speech Codec Modes	HR/ FR/ EFR/ AMR/ AMR-WB	HR/ FR/ EFR/ AMR/ AMR-WB
Echo Algorithm	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression
Voice	Digital Voice and VoLTE (Voice over LTE)	Digital Voice and VoLTE (Voice over LTE)
Enhanced Features		
DTMF	●	●
DFOTA	●	●
Audio Playback/ Audio Recording	●	●
QuecLocator®	●	●
QuecFile®	●	●
(U)SIM Card Detection	●	●
Software Features		
Protocols	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS	TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS
Drivers	RIL	Android 4.x–13.x
	USB Serial	Windows 7/ 8/ 8.1/ 10/ 11
		Linux 2.6–5.18
	USB RNDIS	Android 4.x–13.x
		Windows 7/ 8/ 8.1/ 10/ 11
USB ECM	Linux 2.6–5.18	
GNSS	Android 4.x–13.x	-
Electrical Features		
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V 9.5 µA @ Power off	3.4–4.5 V, typ. 3.8 V 10 µA @ Power off
Power Consumption (Typical)	1.8 mA @ LTE sleep (PF = 128)	1.8 mA @ LTE sleep (PF = 128)
	1.6 mA @ LTE sleep (PF = 256)	1.6 mA @ LTE sleep (PF = 256)
	19 mA @ Idle	18 mA @ Idle

NOTE:

- *: In progress.
- : Supported.