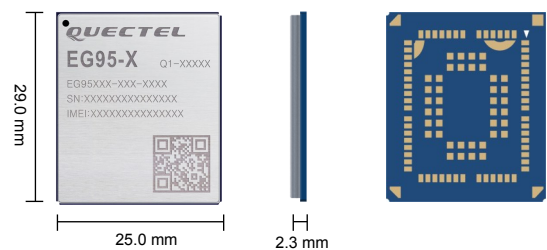




Quectel EG95 Series

IoT/M2M-optimized LTE Cat 4 Module



Quectel EG95 is a series of LTE category 4 module optimized specially for M2M and IoT applications. Adopting 3GPP Rel.11 LTE technology, it delivers maximum data rates up to 150 Mbps downlink and 50 Mbps uplink.

EG95 series contains 6 variants: EG95-NA, EG95-NAX, EG95-NAXD, EG95-E, EG95-EX and EG95-AUX. EG95 series is pin-to-pin compatible with Quectel GSM M95 module, UMTS/HSPA UG95/UG96 modules and LPWA BG95 series/BG96/BC95-G modules. And it is backward-compatible with existing GSM/GPRS & UMTS/HSPA(+) networks, ensuring that it can be connected even in remote areas devoid of 4G network coverage.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB serial drivers for Windows 7/8/10, 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, digital signage and so on.



Key Features

- ✓ LTE category 4 module optimized for M2M and IoT applications
- ✓ Multi-band LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage
- ✓ Compact SMT form factor ideal for size-constrained applications with extended operation temperature range
- ✓ Embedded power management unit (PMU) featuring ultra-low deep-sleep current consumption
- ✓ Simple migration from 2G/3G to 4G with a flexible and scalable platform



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



Max. 42 Mbps (DL)
Max. 5.76 Mbps (UL)



LGA Package



Embedded Abundant
Protocols



Compact Size



Quectel Enhanced
AT Commands



USB 2.0 High Speed
Interface



USB Drivers

Rev.: V2.0 | Status: Released

Quectel EG95 Series

LTE Cat 4	EG95-NA	EG95-NAX	EG95-NAXD (Data-only)	EG95-E	EG95-EX	EG95-AUX
Region/Operator	North America	North America	North America	EMEA	EMEA	Latin America/Australia/ New Zealand
Dimensions (mm)	29.0 × 25.0 × 2.3	29.0 × 25.0 × 2.3	29.0 × 25.0 × 2.3	29.0 × 25.0 × 2.3	29.0 × 25.0 × 2.3	29.0 × 25.0 × 2.3
Temperature Range						
Operating Temperature	-35 to +75 °C	-35 to +75 °C	-35 to +75 °C	-35 to +75 °C	-35 to +75 °C	-35 to +75 °C
Extended Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Frequency Bands						
LTE-FDD	B2/B4/B5/B12/B13	B2/B4/B5/B12/B13/B25/ B26	B2/B4/B5/B12/B13/B25/ B26	B1/B3/B7/B8/B20/B28A	B1/B3/B7/B8/B20/B28	B1/B2/B3/B4/B5/B7/B8/ B28/B66
WCDMA	B2/B4/B5	B2/B4/B5	B2/B4/B5	B1/B8	B1/B8	B1/B2/B5/B8
GSM/EDGE	/	/	/	B3/B8	B3/B8	B2/B3/B5/B8
GNSS	GPS/GLONASS/BeiDou/ Galileo/QZSS (Optional)	GPS/GLONASS/BeiDou/ Galileo/QZSS (Optional)	GPS/GLONASS/BeiDou/ Galileo/QZSS (Optional)	/	GPS/GLONASS/BeiDou/ Galileo/QZSS (Optional)	GPS/GLONASS/BeiDou/ Galileo/QZSS (Optional)
Certifications						
Carrier	America: Verizon/AT&T/ T-Mobile/U.S. Cellular Canada: Rogers/Telus	America: Sprint/ Verizon*/AT&T*/T- Mobile*/U.S. Cellular*	America: Verizon*/ AT&T*/T-Mobile*/Sprint*	/	/	/
Regulatory	Global: GCF America: FCC/PTCRB Canada: IC	Global: GCF America: FCC/PTCRB Canada: IC	Global: GCF America: FCC*/PTCRB*	Global: GCF Europe: CE Australia & New Zealand: RCM Russia: FAC	Global: GCF Europe: CE Australia & New Zealand: RCM	Brazil: Anatel* Australia & New Zealand: RCM*
Others	WHQL/RoHS	WHQL/RoHS	WHQL/RoHS	WHQL/RoHS	WHQL/RoHS	WHQL/RoHS
Data Transmission						
LTE-FDD Data Rate (Mbps)	150 (DL)/50 (UL)	150 (DL)/50 (UL)	150 (DL)/50 (UL)	150 (DL)/50(UL)	150 (DL)/50 (UL)	150 (DL)/50 (UL)
DC-HSPA+ Data Rate (Mbps)	42 (DL)/5.76 (UL)	42 (DL)/5.76 (UL)	42 (DL)/5.76 (UL)	42 (DL)/5.76 (UL)	42 (DL)/5.76 (UL)	42 (DL)/5.76 (UL)
WCDMA Data Rate (kbps)	384 (DL)/384 (UL)	384 (DL)/384 (UL)	384 (DL)/384 (UL)	384 (DL)/384 (UL)	384 (DL)/384 (UL)	384 (DL)/384 (UL)
EDGE Data Rate (kbps)	/	/	/	296 (DL)/236.8 (UL)	296 (DL)/236.8 (UL)	296 (DL)/236.8 (UL)
GPRS Data Rate (kbps)	/	/	/	107 (DL)/85.6 (UL)	107 (DL)/85.6 (UL)	107 (DL)/85.6 (UL)
Interfaces						
(U)SIM	x 2	x 2	x 2	x 2	x 2	x 2
UART	x 2	x 2	x 2	x 2	x 2	x 2
USB 2.0	x 1	x 1	x 1	x 1	x 1	x 1
Audio Digital (PCM)	x 1	x 1	x 1	x 1	x 1	x 1
I2C	x 1	x 1	x 1	x 1	x 1	x 1
NETLIGHT	x 1	x 1	x 1	x 1	x 1	x 1
SPI	x 1	x 1	x 1	x 1	x 1	x 1
Main Antenna	x 1	x 1	x 1	x 1	x 1	x 1
Rx-diversity Antenna	x 1	x 1	x 1	x 1	x 1	x 1
GNSS Antenna	x 1	x 1	x 1	/	x 1	x 1
PWRKEY	x 1	x 1	x 1	x 1	x 1	x 1
RESET_N	x 1	x 1	x 1	x 1	x 1	x 1
USB_BOOT	x 1	x 1	x 1	x 1	x 1	x 1
Voice						
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB	HR/FR/EFR/AMR/ AMR-WB	/	HR/FR/EFR/AMR/ AMR-WB	HR/FR/EFR/AMR/AMR-WB	HR/FR/EFR/AMR/ AMR-WB
Echo Arithmetic	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression	/	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression	Echo Cancellation/ Noise Suppression
Audio	Digital Audio and VoLTE (Voice over LTE) (Optional)	Digital Audio and VoLTE (Voice over LTE) (Optional)	/	Digital Audio and VoLTE (Voice over LTE) (Optional)	Digital Audio and VoLTE (Voice over LTE) (Optional)	Digital Audio and VoLTE (Voice over LTE) (Optional)
Enhanced Features						
DTMF	●	●	/	●	●	●
DFOTA	●	●	●	●	●	●
QMI/RmNet	●	●	●	●	●	●
MIMO 2 x 2	●	●	●	●	●	●
Audio Playback*/Audio Record-	Optional	Optional	Optional	Optional	Optional	Optional
QuecOpen®	●	/	/	●	/	/
QuecLocator®	●	●	●	/	●	●
QuecFile	●	●	●	●	●	●
(U)SIM Card Detection	●	●	●	●	●	●
Drivers						
USB Serial Driver	Windows 7/8/8.1/10, Linux 2.6–5.4, Android 4.x–9.x	Windows 7/8/8.1/10, Linux 2.6–5.4, Android 4.x–9.x	Windows 7/8/8.1/10, Linux 2.6–5.4, Android 4.x–9.x	Windows 7/8/8.1/10, Linux 2.6–5.4, Android 4.x–9.x	Windows 7/8/8.1/10, Linux 2.6–5.4, Android 4.x–9.x	Windows 7/8/8.1/10, Linux 2.6–5.4, Android 4.x–9.x
GNSS Driver	Android 4.x–9.x	Android 4.x–9.x	Android 4.x–9.x	/	Android 4.x–9.x	Android 4.x–9.x
RIL Driver	Android 4.x–10.x	Android 4.x–10.x	Android 4.x–10.x	Android 4.x–10.x	Android 4.x–10.x	Android 4.x–10.x
NDIS Driver	Windows 7/8/8.1/10	Windows 7/8/8.1/10	Windows 7/8/8.1/10	Windows 7/8/8.1/10	Windows 7/8/8.1/10	Windows 7/8/8.1/10
MBIM Driver	Windows 8/8.1/10, Linux 3.18–5.4	/	/	Windows 8/8.1/10, Linux 3.18–5.4	/	/
GobiNet Driver	Linux 2.6–5.4	Linux 2.6–5.4	Linux 2.6–5.4	Linux 2.6–5.4	Linux 2.6–5.4	Linux 2.6–5.4
QMI_WWAN Driver	Linux 3.4–5.4	Linux 3.4–5.4	Linux 3.4–5.4	Linux 3.4–5.4	Linux 3.4–5.4	Linux 3.4–5.4

Quectel EG95 Series

LTE Cat 4	EG95-NA	EG95-NAX	EG95-NAXD (Data-only)	EG95-E	EG95-EX	EG95-AUX
Electrical Features						
Supply Voltage Range	3.3–4.3 V, 3.8 V Typ.	3.3–4.3 V, 3.8 V Typ.	3.3–4.3 V, 3.8 V Typ.	3.3–4.3 V, 3.8 V Typ.	3.3–4.3 V, 3.8 V Typ.	3.3–4.3 V, 3.8 V Typ.
Power Consumption	15 μ A @ Power off 2.6 mA @ Sleep, Typ. 31 mA @ Idle	15 μ A @ Power off 2.6 mA @ Sleep, Typ. 31 mA @ Idle	15 μ A @ Power off 2.6 mA @ Sleep, Typ. 31 mA @ Idle	15 μ A @ Power off 2.6 mA @ Sleep, Typ. 31 mA @ Idle	15 μ A @ Power off 2.6 mA @ Sleep, Typ. 31 mA @ Idle	15 μ A @ Power off 2.6 mA @ Sleep, Typ. 31 mA @ Idle

Notes:

1. * means under development.
2. ● means supported.

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