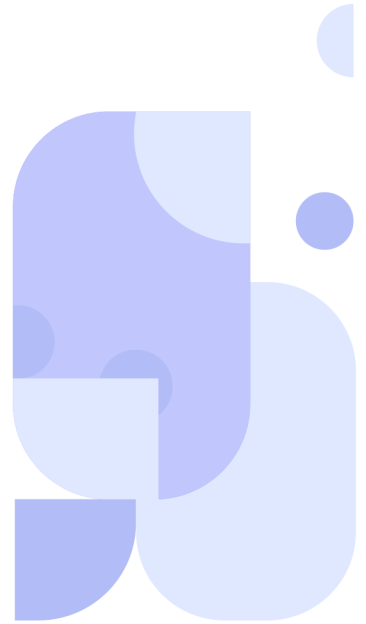
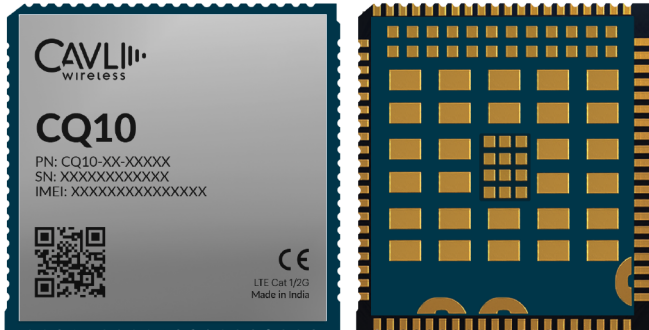


CQ10



Cavli
C Series



Overview

CQ10 is an LTE Cat 1 module with 2G fall back supporting 3GPP release 10 designed for IoT and M2M applications. It delivers a maximum data rate of 10 Mbit/s DL & 5 Mbit/s UL. It has a compact LGA form factor. CQ10 supports in-built GNSS with Qualcomm® Location Suite Gen8C Lite (GPS, GLONASS, BeiDou/ Compass, Galileo and QZSS), for precise and dependable positioning. CQ10 supports VoLTE and SMS over IMS/SG/CS and supports wide set Internet protocols and industry-standard interfaces.

The CQ10 Module is available in five regional variants, namely, CQ10-EAJ for Eurasia & Japan, CQ10-NA for North America CQ10-IN for India, CQ10-AN for Australia & New Zealand, CQ10-LA for Latin America along with a worldwide variant, CQ10-WW, for global deployments. CQ10 is ideal for IoT applications such as asset tracking, automotive, e-mobility, data loggers, fleet management and environmental monitoring.

Key Highlights



LTE Cat 1



In-built GNSS



Yocto Linux



Compact Form
actor Design



VoLTE
Support



SMS over
IMS/SG/CS



2G Fallback



USB 2.0
Interface

Basic Module Information

Basic Specification

Processor: ARM Cortex-A7 upto 1.3 GHz	
RAM:	256 MB
Flash:	256 MB / 512 MB
OS:	Yocto Linux (Kernel 4.14)

LTE Bands

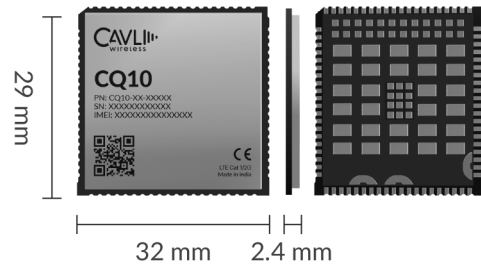
NA:	2/ 4/ 5/ 12/ 13/ 17/ 25/ 66
WW:	1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28/ 40/ 66
AN:	1/3/5/8/18/19/26/28
EAJ:	1/ 3/ 5/ 7/ 8/ 18/ 19/20/ 26/ 28/ 40
LA:	1/ 2/ 3/ 4/ 5/ 7/ 8
IN:	1/ 3/ 5/ 8/ 40
EU:	1/3/7/8/20/28
GSM Bands:	900 /1800 MHz

Interfaces

UART	x3
USB 2.0 (HS)	x1
SDIO 3.0	x1
USIM (1.8V / 2.85V)	x1
SDC	x2
Network Status Indicator	x2
Power ON Status Indicator	x1
SGMII	x1
I2C ²	x1
SPI	x1
ADC	x2
PCM ²	x1
JTAG	x1
GPIO	x2
Main ANT	x1
GNSS ANT	x1

Internet Protocols

TCP/HTTP/MQTT/HTTP/HTTPS/MQTT/FTP/FTPS/
PPP/SNMP



Packaging

Form Factor:	LCC + LGA
Dimensions:	32x 29 x 2.4 (mm scale)
Pin Count:	144 Pins

Radio Technology

RAT Used:	LTE Cat 1 with 2G
3GPP Release:	10

Network Speed (Peak Values)

LTE Cat 1:	DL 10Mbps & UL 5 Mbps
GSM:	DL 236.8Kbps & UL 236.8 Kbps

Constellation Coverage

GPS/GLO/GAL/BDS with QZSS
Qualcomm Location Suite Gen8C Lite

Temperature Range

Operating Temperature: -30 °C to 85 °C

Power Characteristics

Voltage Range:	3.6 V to 4.5 V
Typical Voltage:	3.8 V

¹ Optional

² Needs SDK