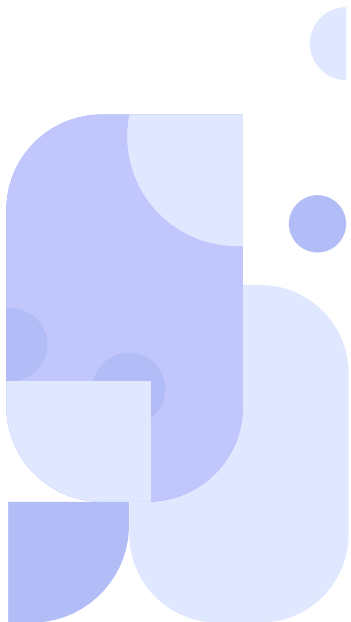
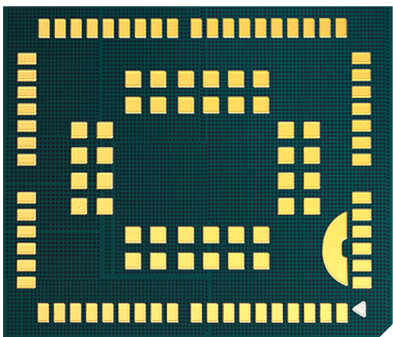


C11QM



Cavli
C Series



Overview

Cavli C11QM is a series of LTE Cat 1 modules with 2G fall back supporting 3GPP release 10, designed for IoT and M2M applications. C11QM supports in-built GNSS for precise and dependable positioning. C11QM supports VoLTE and SMS over IMS/SG/CS and support a wide array of internet protocols and industry-standard interfaces.

The module is currently region-specific, with versatile support for LTE and 2G bands of the region. Cavli C11QM is ideal for IoT applications such as asset tracking, e-mobility, telematics units, fleet management and industrial monitoring.

Key Highlights



LTE Cat 1



Inbuilt GNSS



2G Fallback



USB 2.0
Interface



ThreadX RTOS



VoLTE
Support



SMS over
IMS/SG/CS



Basic Module Information

Basic Specification

Processor:	ARM Cortex-A7 @ Speed upto 1.3 GHz
Flash:	128 MB
RAM:	128 MB
OS:	ThreadX RTOS

Radio Technology

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

LTE Bands

INDIA:	B1/B3/B5/B8/B40/B41
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GSM Bands

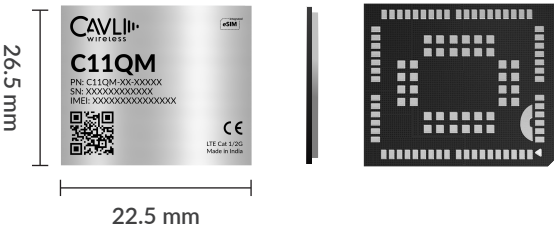
INDIA:	900 /1800 MHz
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Internet Protocols

TCP(S), HTTP(S), MQTT(S), FTP(S), UDP, PPP
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Interfaces

uSIM	x1
ADC	x2
USB 2.0	x1
GPIO	x4
I2C	x1
SDC	x2
PCM	x1
SPI	x1
UART	x4
Network Status Indicator	x1
Power ON Status Indicator	x1



Packaging

Form Factor:	LGA
Dimensions:	26.5 x 22.5 x TBD (mm scale)
Pin Count:	102 Pins
Weight:	TBD

Network Speed (Peak Values)

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 Gen 8C lite

Temperature Range

Operating Temperature:	-30 °C to 75 °C ⁴
Extended Operating temp:	-40 °C to 85 °C ⁴

Power Characteristics

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

Applicable Region(s)

INDIA

⁴Needs SDK

This document is a pre-release version. Some technical specifications may be subjected to change.