C42QM

C42QM is an LTE CAT M1/NB1/NB2/2G compatible Smart Cellular Module based on 3GPP Release 14, that comes with an integrated eSIM. C42QM has a healthy battery life profile of ten years due to Deep Sleep Mode capability. It also comes with integrated GNSS and fall back to 2G network when required. The integrated eSIM coupled with Cavli Hubble Global Connectivity ensures the module can be deployed across the globe, making it an ideal solution for logistics, automative, vehicle tracking systems and more.

Re-imagining Cellular IoT Solutions

FEATURES

Excellent Indoor & Underground penetration
Compatibility with existing LTE networks
Optimized for higher bandwidth including voice
Paired for devices in mobility
Perfect for localized applications such as
    Point of Sales, Health Monitoring,
    Fleet Management and Asset Tracking

TECHNICAL SPECIFICATIONS

LTE-M: B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28
NB-IoT: B2/B3/B5/B8/B12/B13/B19/B20/B26/B28
EGPRS: 850/900/1800/1900
LTE: 3GPP E-UTRA Release 14 CAT M1/NB1/NB2
CPU: ARM Cortex-A7 up to 800Mhz with 256KB L2 Cache
Location: GNSS - GPS, GLONASS, Beidou, Galileo

DATA-CONNECTIVITY

LTE-M1: 1119Kbps (UL), 588Kbps (DL)
NB1: 60Kbps (UL), 20Kbps (DL)
NB2: 158.5Kbps (UL), 127Kbps (DL)
GPRS: 85.6Kbps (UL), 107Kbps (DL)
EDGE: 236.8 Kbps (UL), 296 Kbps (DL)

PACKAGING

Dimension: 23.6 x 19.9 x 2.4 mm, LGA Package
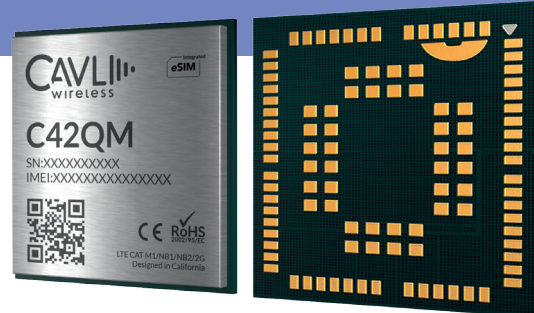
TEMPERATURE RANGE

Normal working temperature:	-35°C to +75°C
Extreme working temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C

INTERFACES

1.8V/3V SIM Interface
Operating Voltage: 2.4V to 4.2V; Typ 3.7V
1xUSB2.0, 2xUART, 1xUSIM, 9xGPIO, 1xPCM, 1xI2C, 2xADC, 2xANT

APPLICABLE REGIONS

Global

TECHNICAL HIGHLIGHTS

PARAMETERS	LTE-M1	NB2
BANDWIDTH	1.4 MHz	180 KHz
PEAK DATA RATE	<1119 Kbps	<158.5 Kbps
UPLINK SPEED	1119 Kbps	158.5 Kbps
DOWNLINK SPEED	588 Kbps	127 Kbps
LATENCY	50-100 ms	1.5-10s
BATTERY LIFE	5-10 years	10+ years
PENETRATION	Good	Excellent
VOICE	VoLTE	No

Automotive & Logistics   Smart City   Energy & Utilities   Safety & Security   Manufacturing

Agriculture   Health Care & E - Health   Retail   Smart Home

Cavli Hubble™ is our proprietary Connectivity as a Service (CaaS) cloud platform for global cellular data subscription management, module & modem management, enabling businesses and industries to build and deploy easily scalable global wireless IoT solutions.

Cavli Hubble

www.cavliwireless.com