



Technical Specification Document

C120GS

LTE Cat 6 Module



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Cavli
C Series

Cavli C-Series C120GS Module

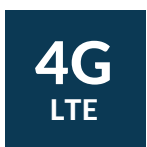
LTE Cat 6 Module



C120GS is an LTE Cat 6 module compatible with 3GPP release 10 standards for IoT and M2M applications. It delivers maximum data rates up to 300 Mbps downlink and 50 Mbps uplink. It has a M.2 form factor (key-B).

C120GS is perfect for applications that require medium to high data throughput with location information and global deployments such as LTE Mobile Router, Smart Phones, Portable Multi-media Devices, Health Monitoring, etc.

Key features



LTE Cat 6



M.2 Form Factor



Cavli Hubble Platform



USB 3.0 / 2.0 Interface

C120GS

Basic Information

Region	EMEA & APAC
CPU	ARM Cortex 7 Dual Core
Memory	128 MB RAM + 128 MB Flash
OS	Linux
Package	M.2 (key-B)
Pin Count	75
Dimensions	42 x 30 x 2.6 mm
Weight	TBD
Operating Temperature	-30°C to +75°C

Radio Frequency Bands

RAT	LTE Cat 6
Transmission Rates (Peak)	DL 300Mbps & UL 50Mbps
LTE Band List	B1/B3/B5/B7/B8/B20
3GPP Release	10

Network Protocols

Internet Protocols	TCP/IP, HTTP(S), MQTT(S), FTP(S)
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Interfaces

UART	x3
USB 2.0	x1
USB 3.0	x1
USIM (DSSS) (1.8V / 3.0V)	x1
I2C	x1
SPI	x1
PCM	x1
ADC	x1
Auxiliary Control ANT	x1
Main ANT	x1

¹Optional

²Needs SDK

³In Progress

Electrical Characteristics

Operating Voltage	Range: 3.0V to 3.6V Typical: 3.3V
TxD Idle	TBD
DRX Mode (Avg)	TBD

Driver Support

USB Driver	RNDIS Driver
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Certifications

Regulatory	Global: GCF ³ Europe: CE UK: UKCA ³ Taiwan: NCC ³ South Korea: KC ³
Carrier	Verizon ³ /AT&T ³ /T-Mobile ³
Others	RoHS/REACH

¹Optional

²Needs SDK

³In Progress



Product Variants

Variant Name	Region	Integrated eSIM
C120GS-S001N	Global	×
C120GS-GNA1N		×



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