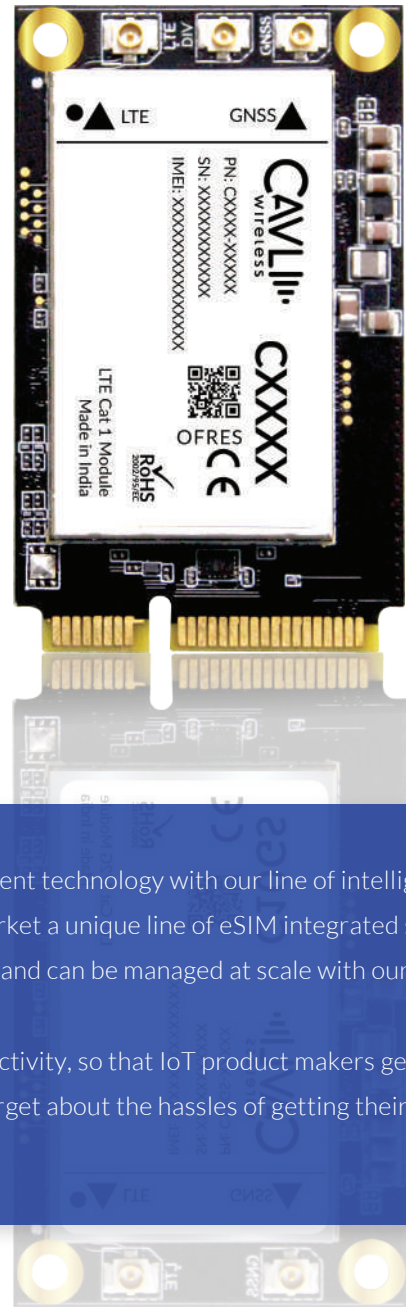# Plug Connect Scale

with Cavli MiniPCIe modules

At Cavli Wireless, we are building the next generation of IoT connectivity management technology with our line of intelligent hardware, network access solution and modem management cloud. We bring to market a unique line of eSIM integrated smart IoT modules that are pre-loaded with local LTE, LPWAN, 5G* network connectivity and can be managed at scale with our flagship connectivity management platform solution - Cavli Hubble.

We work with Cellular network providers around the world to facilitate local connectivity, so that IoT product makers get to focus on what really matters to them - improving their customer experience, and forget about the hassles of getting their devices smart connected.
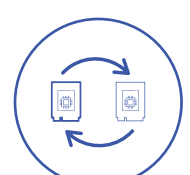
**Reduction in
Time-to-market
(TTM) for final device**

**Integrated
eSIM support**

**LTE Cat 1/Cat 4
/Cat 1.bis/
Cat M1 / NB-IoT**

**mPCIe Standards
enable modularity**
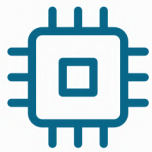
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Cavli Wireless at a Glance

At Cavli Wireless, we are building the next generation of IoT connectivity and management technology with our propietary line of intelligent hardware, network access solutions and modem management cloud. We bring to market a unique line of eSIM Integrated Smart IoT modules that are pre-loaded with local LTE, LPWAN, 5G* network connectivity and can be managed at scale with our flagship connectivity management cloud platform solution - Cavli Hubble.

We work with Cellular network providers around the world to facilitate local connectivity, so that IoT product makers get to focus on what really matters to them - improving their customer experience, and undergo a hassle-free encounter of getting their device Smart Connected.

Cavli Value Proposition

Cavli Wireless brings together the three basic building blocks of IoT connectivity enablement, required to build & scale a 'Smart-Connected' solution/product across geographies in the most seamless & cost-effective manner possible.

Cellular IoT modules

IoT connectivity over Integrated eSIM

IoT connectivity-Modem management cloud

Cavli Corporate Highlights

39+	100+	15+	25+	5G	Modem Intelligence	CaaS
Use Cases	IoT OEM Customers around the globe	15+ eSIM Integrated smart IoT modules	Countries being served around the globe	Upcoming 5G RedCap Modules	Built in Hubble Stack Intelligence providing "smart" drop intelligence capabilities	Connectivity as a Service Solution for Cellular IoT

Sales and Partnerships

Get in touch with us to get onboarded on the future of IoT connectivity. If you are an IoT product maker trying to put together the building blocks of IoT connectivity management, let us help you figure it out. Our team of solution experts can get you from product development to launch in under 3 months.

For direct sales enquires: sales@cavliwireless.com   For solution consulting: solutions@cavliwireless.com

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CAVLI wireless

	C10GS	C10QM	C20QM
	50.9mm / 30.0mm x 3.78mm	50.9mm / 30.0mm x 3.78mm	50.9mm / 30.0mm x 3.78mm
	LTE GNSS Cat 1 Global	LTE GNSS Cat 1/2G NA, EA	LTE GNSS Cat 4/2G NA, EA

Primary Features

C10GS	C10QM	C20QM
LTE Cat 1 (3GPP Release 9)	LTE Cat 1 with 2G (3GPP Release 10) VoLTE Support	LTE Cat 4 with 2G (3GPP Release 10) VoLTE Support
ARM-11 processor: 400MHz	ARM Cortex A7 processor: 1.3GHz clock	ARM Cortex A7 processor: 1.3GHz clock
256 MB Flash + 128 MB RAM	256/512 MB Flash + 256 MB RAM	256/512 MB Flash + 256 MB RAM
Linux OS (Kernel 3.x/5.x) With SDK + Full FOTA Support	Yocto Linux OS (Kernel 4.14) With SDK + Full FOTA Support	Yocto Linux OS (Kernel 4.14) With SDK + Full FOTA Support
Integrated GNSS	In-built GNSS Qualcomm Location Suite	In-built GNSS Qualcomm Location Suite
Dimensions : 50.9mm x 30.0mm x 3.78mm	Dimensions : 50.9mm x 30.0mm x 3.78mm	Dimensions : 50.9mm x 30.0mm x 3.78mm

Cavli Edge Features

C10GS	C10QM	C20QM
FOTA available	Virtual CAN Support and LCD Interface	Virtual CAN Support and LCD Interface
OpenSDK	High-Speed UART (upto 4Mbps)	High Speed UART (upto 4Mbps)
Deep Sleep Mode	USB 2.0 and OTG Host support	USB 2.0 and OTG Host support

Internet Protocols

C10GS	C10QM	C20QM
TCP(S), HTTP(S), MQTT(S), FTP(S), WS(S), SNMP(S), UDP, PPP	TCP(S), HTTP(S), MQTT(S), FTP(S), UDP, PPP	TCP(S), HTTP(S), MQTT(S), FTP(S), UDP, PPP

Network Speeds (Peak values)

C10GS	C10QM	C20QM
Cat 1: DL 5Mbps (UL), 10Mbps (DL)	Cat 1: DL 10 Mbps & UL 5 Mbps GSM: DL 236.8Kbps & UL 236.8 Kbps	Cat 4: DL 150 Mbps & UL 50 Mbps GSM: DL 236.8Kbps & UL 236.8 Kbps

Temperature Range

C10GS	C10QM	C20QM
Operating Temperature: -30 °C to 85 °C	Operating Temperature: -30 °C to 85 °C	Operating Temperature: -30 °C to 85 °C

Satellite Constellations

C10GS	C10QM	C20QM
GPS, GLONASS, BeiDou, Galileo Hot/Warm/Cold Start 132 Tracking Channels Extended GNSS Capabilities	GPS/ GLONASS/ BeiDou/Galileo SBAS + QZSS Capable Hot/Warm/Cold Start Qualcomm Location Gen 8C engine	GPS/ GLONASS/ BeiDou/Galileo SBAS + QZSS Capable Hot/Warm/Cold Start Qualcomm Location Gen 8C engine

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CAVLI wireless

C16QS

50.9mm

30.0mm x 3.78mm

Lte
GNSS
Cat 1.bis
EA, NA, LA, AN, WW

C42GM

50.9mm

30.0mm x 3.78mm

GNSS
**Cat M1
NB IoT**
Global

Product Highlight Features

LTE Cat 1.bis (3GPP Release 14)	LTE Cat M1/NB1/NB2 (3GPP Release 14) Sigfox Support
ARM Cortex M3 processor: 204 MHz clock	ARM Cortex R4 processor: 192MHz clock 32KB	Cache 32 KB D-Cache: 64KB A-TCM: 2MB B-TCM
4 MB Flash + 1.25 MB RAM	16/32 MB Flash + 2MB RAM
FreeRTOS + DFOTA	Zephyr
Integrated GNSS	Integrated GNSS
Dimensions : 50.9mm x 30.0mm x 3.78mm	Dimensions : 50.9mm x 30.0mm x 3.78mm
AGNSS, Hot/Cold/Warm Start Low Power Consumption: PSM available	Low Power Consumption: PSM available

Cavli Edge Features

Free RTOS	Zephyr RTOS
DFOTA	Sigfox
High Speed UART interface (Upto 3 Mbps)	

Internet Protocols

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

Network Speeds (Peak values)

Cat 1.bis: DL 10Mbps & UL 5Mbps	LTE Cat M1: 558kbps (DL), & 1119kbps (UL) LTE Cat NB1: 20kbps (DL), 60kbps (UL)

Temperature Range

Operating temperature: -30°C to +85°C	Operating Temperature: -30 °C to 85 °C

Satellite Constellations

GPS	BeiDou	GPS	BeiDou

Smart Home

Agriculture

Smart Scooter

Retail

Smart City

Energy Utilities

Safety & Security

Manufacturing

Industrial Gateway

Automotive & Logistics

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