# Cavli C-Series Device Development Kit

The New Enhanced C-Series DDK (Device Development Kit)

The new enhanced C-Series DDK provides users with flexible product development and evaluation options for several use case scenarios with Cavli C-Series Smart Mini PCIe Modules.

The DDK provides users with complete OpenCPU access of Cavli Smart Modules with the necessary GPIOs and interfaces for product testing and development.
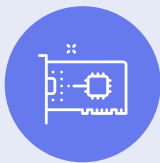
Simplified circuit design & development
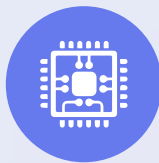
OpenCPU access and support

On-board LTE, Diversity & GNSS chip antennas

Integrated eSIM support

Reduction in Time-To-Market (TTM) for final device

Technical Features

- Full device SDK support
- 40 Pin GPIO Interface with additional JTAG & CAN interface
- Support for all Cavli Smart Mini PCIe Modules
- Integrated high-gain chip antenna(s)

How can Cavli's Device Development Kit fast track your IoT product development journey?

With powerful OpenCPU access to the Cavli Smart modules, development cycle for OEMs making IoT enabled solutions is cut short thereby resulting in reduced R&D effort & costs. With the DDK, the Cavli smart modules can be programmed to host the application to accelerate proof of concept development.

An indicative list of applications that can be developed easily with the Cavli DDK

Panic Button

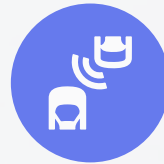**Remote Machinery Diagnosis**

Solar Photovoltaic Monitoring

Location/Tracking System
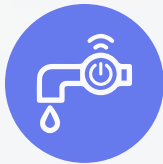
Air Quality Management System

EV BMS System

Collision Avoidance System

Geo-Fencing System

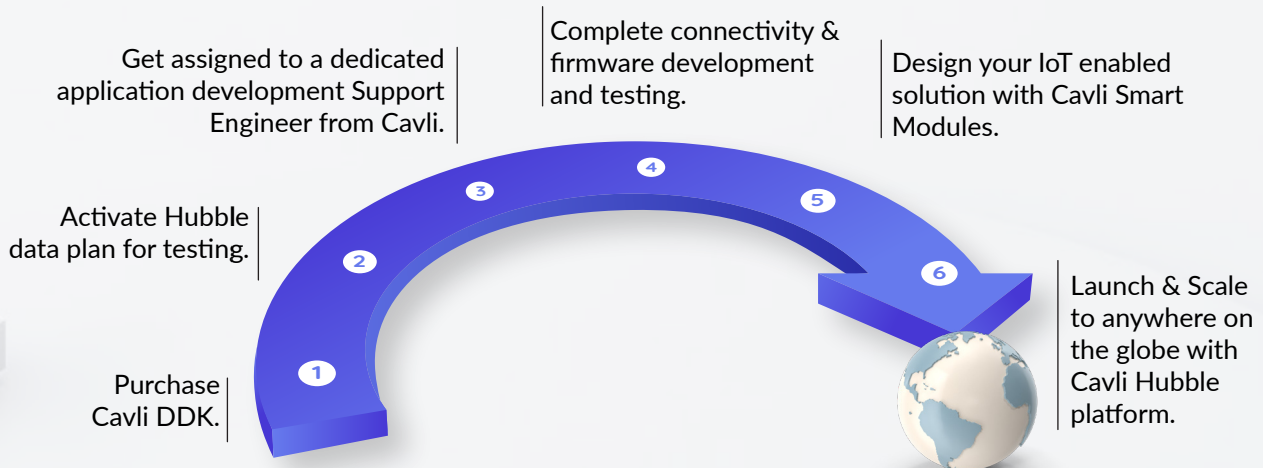**Smart Water Management System**

Seismic Activity Alert System

Patient Monitoring System

Home Automation System

& many more...

1. Purchase Cavli DDK.

2. Activate Hubble data plan for testing.

3. Get assigned to a dedicated application development Support Engineer from Cavli.

4. Complete connectivity & firmware development and testing.

5. Design your IoT enabled solution with Cavli Smart Modules.

6. Launch & Scale to anywhere on the globe with Cavli Hubble platform.

C-Series Device Development Board Interfaces

1	NN03-310 LTE Antenna	32 NN03-310 Diversity Antenna
2	NN03-320 GNSS Antenna	31 CAN Bus Interface
3	40 Pin Connector	30 JTAG Interface
4	C-Series Smart Mini PCIe Module	29 Status Indicator
5	Mini PCIe Female Connector	28 VREF Indicator
6	SIM Card Socket	27 Micro SD Card Socket
7	Ethernet Chip	26 Network Indicator
8	UART Bus Transceiver	25 PSM Indicator
9	FTDI-UART Transceiver LED	24 J22 Jack
10	Ethernet Magnetic Chip	23 8 Pin Connector
11	RJ45 Jack	22 3.5mm Audio Jack
12	USB Interface	21 RS232 Transceiver
13	UART Interface	20 UART Voltage Transceiver
14	FTDI USB-UART Converter	19 DB9 Female Connector
15	Power Switch	18 3.3V Regulator
16	Reset Button	17 Power Input (Type-C)

GPIO Interface

40 Pin Connector provides access to all GPIO pins for OpenCPU development.

High-gain Antenna(s)

On-board high-gain diversity antenna(s) for cellular and GNSS connectivity negates external antenna requirements.

JTAG Interface

The JTAG interface allows users to easily test & debug designs on a hardware level.

Physical SIM Slot

Access to physical SIM slot allows users to choose between the integrated Hubble eSIM and the preferred teleco partner SIM.

Legacy Connector Options

Legacy connectors such as J22, DB9F RS-232 have also been included in the DDK.

Host PC Interface

Micro USB connectors are provided for connectivity to the host PC for device development SDK.

Cavli Smart Modules for which DDKs are available:

C42GM
LTE-M1 NB1 NB2
Global

C10GS
LTE CAT 1
Global

C100GS
LTE CAT 4
Global

Now
BUILD
CONNECT
SCALE
With Cavli Wireless

Cavli Hubble

About Cavli wireless

Cavli Wireless is an Internet of Things enabler and we aim to democratize the IoT sector with our Software to Hardware product suite which includes Smart Connectivity & Compute Modules, eSIM solutions and Connectivity & Device management Platform. We directly work with telecom operators around the world to facilitate local IoT connectivity, thereby ensuring that any IoT product maker or enterprise in any industry can easily build, connect and scale their IoT solutions to any geography in the world in the most secure, and seamless manner possible.
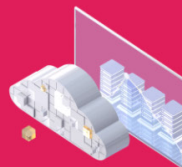
Hubble99

Cavli Hubble99 provides the building blocks of IoT - the Edge Hardware, Embedded Software, Global Network Connectivity and IoT Protocols, all bundled for an irresistible proposal of **$0.99/Device/Month.**

| Cellular Modules | + | eSIM and Data connectivity | + | Connectivity-Device Platform | = | $ 0.99 /device / month |

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