



The ACTIA® HPC offers a ruggedized HPC open platform, ideal to be installed in all vehicles subjects to harsh conditions.

Its efficient design, which does not require a cooling system, means it can be installed quickly and easily, minimising integration and facilitating its adoption in vehicle architectures, offering a gateway to SDV.

HPC

OPEN PLATFORM





KEY FEATURES

HPC ECU

- 2xDual-core ARM® Cortex A76 CPU
- 3x core ARM® Cortex R52 CPU
- Computer Vi & DL accelerators
- AXM-8-256 GPU
- 8GB 64 bits LPDDR5-6400
- 10/100/1000 Ethernet
- USB 3.0 & USB 2.0
- GMSL2 Display Interface
- GMSL2 Camera Interface with PoC
- GPIOs, I2C, SPI, UART
- IP69K
- 24V compatible

Display

- 12.8" display size
- 1920*1080 - 24bits
- GMSL2 Interface
- IP6K5
- 24 V compatible

Cameras

- 1936*1556 @ 60fps
- FOV H 60° / 118° / 195°
- GMSL2 Interface with PoC

KIT CONTENTS

- ACTIA HPC ECU with Power Supply
- 2x Activision 1280R display
- 4x Cameras
- Cables & accessories
- Documentations
- Training

With the native support of pre-integrated, state-of-the-art cluster and infotainment functions, the ACTIA® HPC minimizes the hardware cost in the cockpit area, by reducing the system complexity and the vehicle wiring.

The state of the art video acquisition pipeline and powerful AI engine, allow developers to run AI framework and model for ADAS applications.

The developer kit provides all cameras and displays needed to develop perception and cluster applications.

The ACTIA® HPC is integrated in the ACTIA SW platform which includes a board support package (BSP), Linux OS, Middleware

SUSTAINABILITY

- **Passive cooling**
- **Easy installation in the vehicle**
- **Direct interoperability with ACTIA displays (8", 12.8")**

4 IN 1

- **Cluster**
- **Infotainment including Radio (with RF Box)**
- **Danger detection (Deep learning)**
- **SDV (with RF Box)**

CAMERA & DISPLAY

- **Up to 4 displays**
- **Up to 8 cameras inputs**

SW

- **360° bird view**
- **Embedded camera calibration tool**
- **Framework AI**
- **Safety, Cybersecurity**
- **Multi-domain**
- **SDV, FOTA**

HW PLATFORM

Cost and performance optimized solution

- **2x Dual A76**
- **3x R32 (Lockstep)**
- **Computer vision & DL accelerators**
- **GPU**

CONNECTIVITY

- **Up to 4 ethernet Gbits with POE/PoDL**
- **2x USB3.0 ports with PD**
- **1x USB2.0 port**
- **CAN (x4) & LIN**

