



CV2 Electronic control unit (ECU)

CV2 ECU is a ready-to-integrate multi-channel imaging and multi-DNN (Deep Neural Network processing) hardware platform. It can be used for prototyping, collecting video datasets and implementing various Automotive Vision systems including the Driving Assistance and Driving Automation. Its power-efficient design and built-in car battery discharge protection enables both driving safety and parking security applications. The rich set of interfaces supports integration with different telematic and other systems used in automotive applications.

Key features:

- 6 – camera image processing and computer vision module
- Development platform for Automotive Vision Systems
- Based on Rhonda CV2A System on a Module
- High-efficiency video encoding, up to 480 MPixel/s
- Powerful Ambarella® ISP
- Ambarella® CVFlow™ HW accelerator for running CNN/DNN
- Stereovision processing with HW acceleration

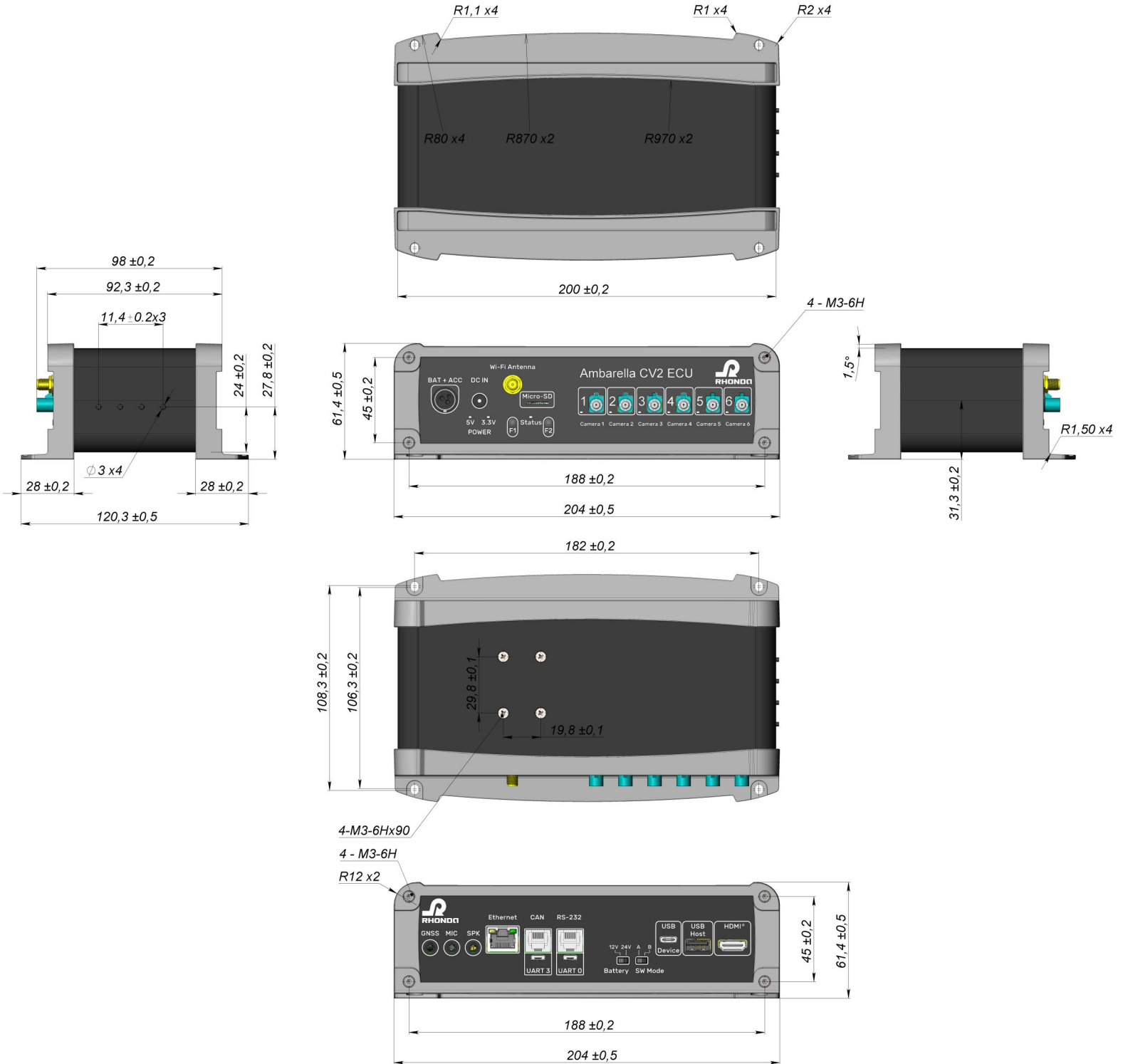
Key components:

- *Ambarella® CV2AX85™ SoC*
- *Analog Devices® MAX9296 GMSL2 deserializers*
- *16Gbit LPDDR4 DRAM*
- *32GB eMMC storage*
- *Wi-Fi module (802.11a/b/g/n/ac)*

Interfaces:

- *6 GMSL2 Fakra-Z camera connectors*
- *Power input 12-24V:*
 - *2-line barrel connector*
 - *3-line: BAT + ACC (ignition) + GND*
- *RJ45 Gigabit Ethernet*
- *HDMI® Type-A output port*
- *USB2.0 Type-A: USB Host interface*
- *USB2.0 Type C: USB Device interface*
- *External GPS/GNSS connector*
- *External Microphone and Speaker*
- *CAN bus connector*
- *Serial port*
- *Micro-SD (SDHC/SDXC)*
- *2 x USB-to-UART debug interfaces*
- *Programmable switch, 2 buttons and RGB LED*

CV2 ECU dimensions



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