CV2S System On Module

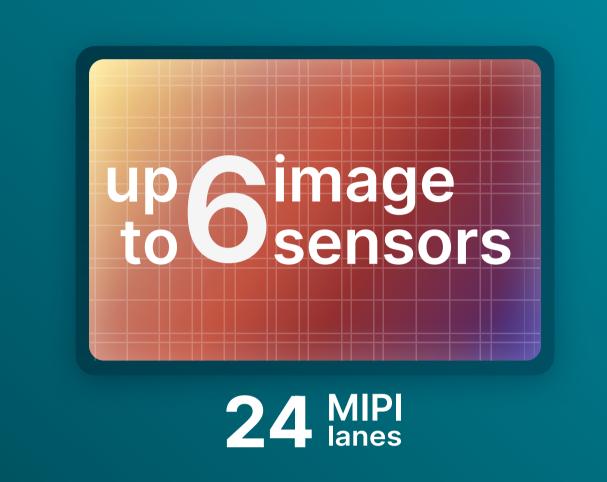


CV2S SoM is a low-power, ready-to-integrate and production ready camera platform for rapid prototyping, quick development and production of robotics, smart security and other applications.

Key features

LPDDR416 Gbit

32 GB eMMC 5.1



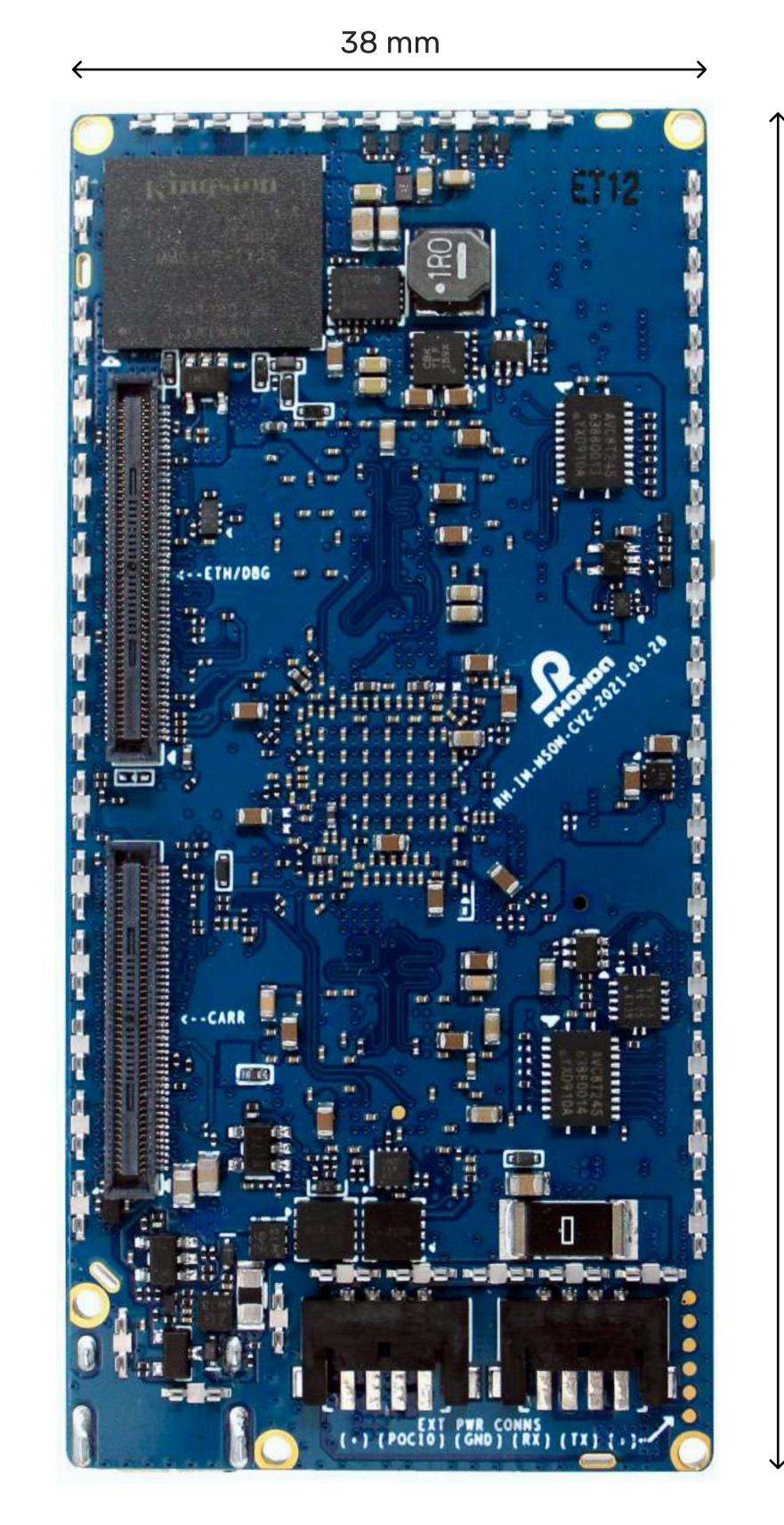




Wi-Fi 802.11a/b/g/n/ac Over 30
Image Quality
Filters







81 mm

CV2S SoM General Specifications

Ambarella® CV2S88™ SoC

Video processing up to 4Kp60 / 8MP60

Rich sensor interface:

- up to 6 image sensors:
- up to 4 MIPI or SLVS lanes each
- up to 2 image sensors:
 - MIPI up to 8 lanes each
 - SLVS up to 12 lanes each

Rich video output interface:

- 4-lane MIPI DSI® / CSI-2 & FPD out
- 16-bit parallel LVCMOS
- HDMI ® 2.0
- Analog CVBS

16Gbit LPDDR4 DRAM

32GB internal eMMC 5.1 storage

WiFi (802.11a/b/g/n/ac)

Wide range of peripheral interfaces:

- Gigabit RGMII
- USB 2.0 HOST / DEVICE
- MCPI, DSI
- |2S
- UART
- JTAG
- |2C
- SPI
- GPIO

ADC

On-board digital microphone

On-board USB-C slot

On-board Micro SD slot

SD, SDHC, SDXC card support

On-board button and 3-color LED for basic UI

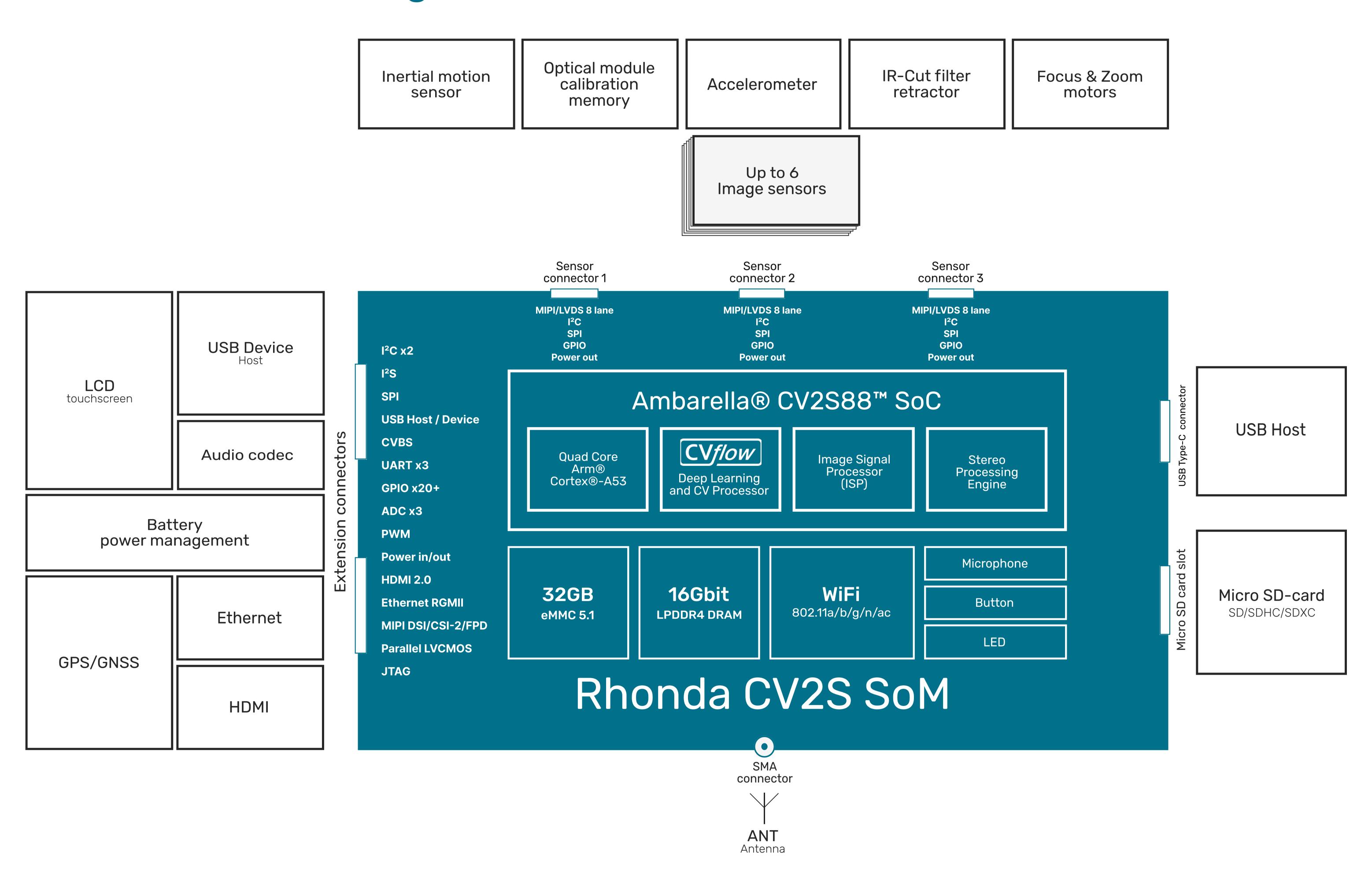
Main board physical dimensions 81 × 38 mm

Operating temperature -20°C to 85°C

Power input options:

- 5V from USB
- 3.5-5V from board-to-board connector
- 3.5-5V dedicated power connector

CV2S SoM Block Diagram



Rhonda CV2S SOM product brief v1.3

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