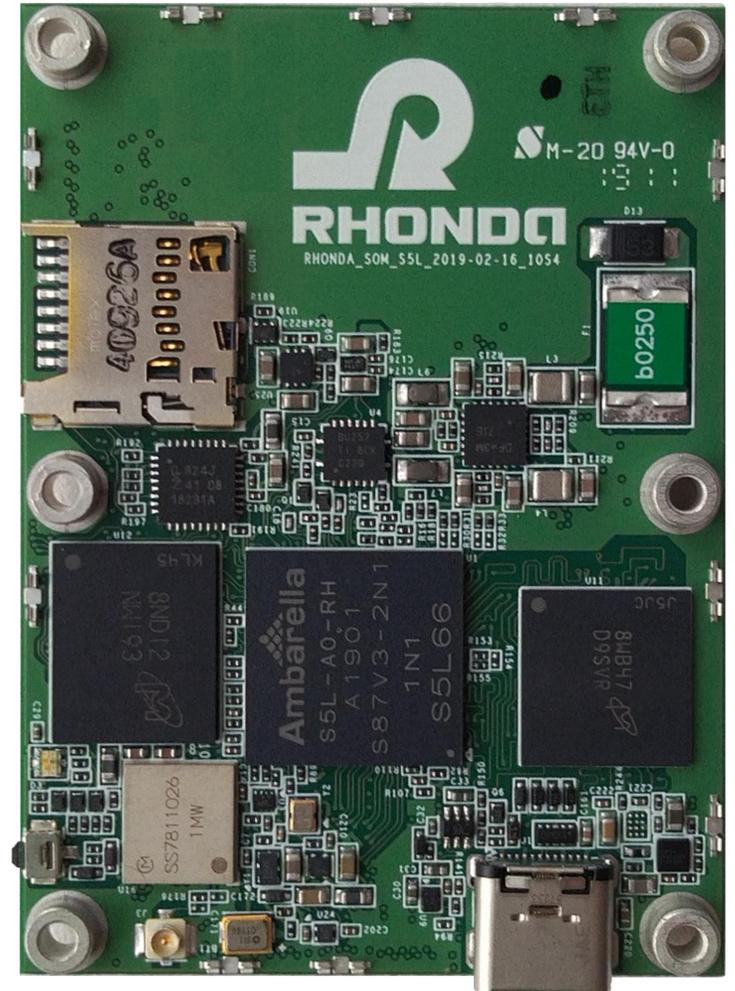


# S5L System On Module

## Overview

S5L System On Module (S5L SoM) is a hardware platform for consumer and professional imaging products. S5L SoM is based on Ambarella® S5L66™ SoC. S5L SoM contains a main board and a set of daughter boards, allowing flexible functionality.

S5L SoM is low-power, ready-to-integrate and production ready for rapid prototyping, quick development and the production of surveillance, home monitoring or other applications.



## Key Features

- 4Kp30 H.264/H.265 video recording
- Superior image quality of Sony® Starvis™ image sensor
- WiFi streaming
- Ethernet streaming<sup>2</sup>
- SD card
- USB Host for 4G Mobile connectivity



Default package size is 63.5 x 46 mm

## General Specification

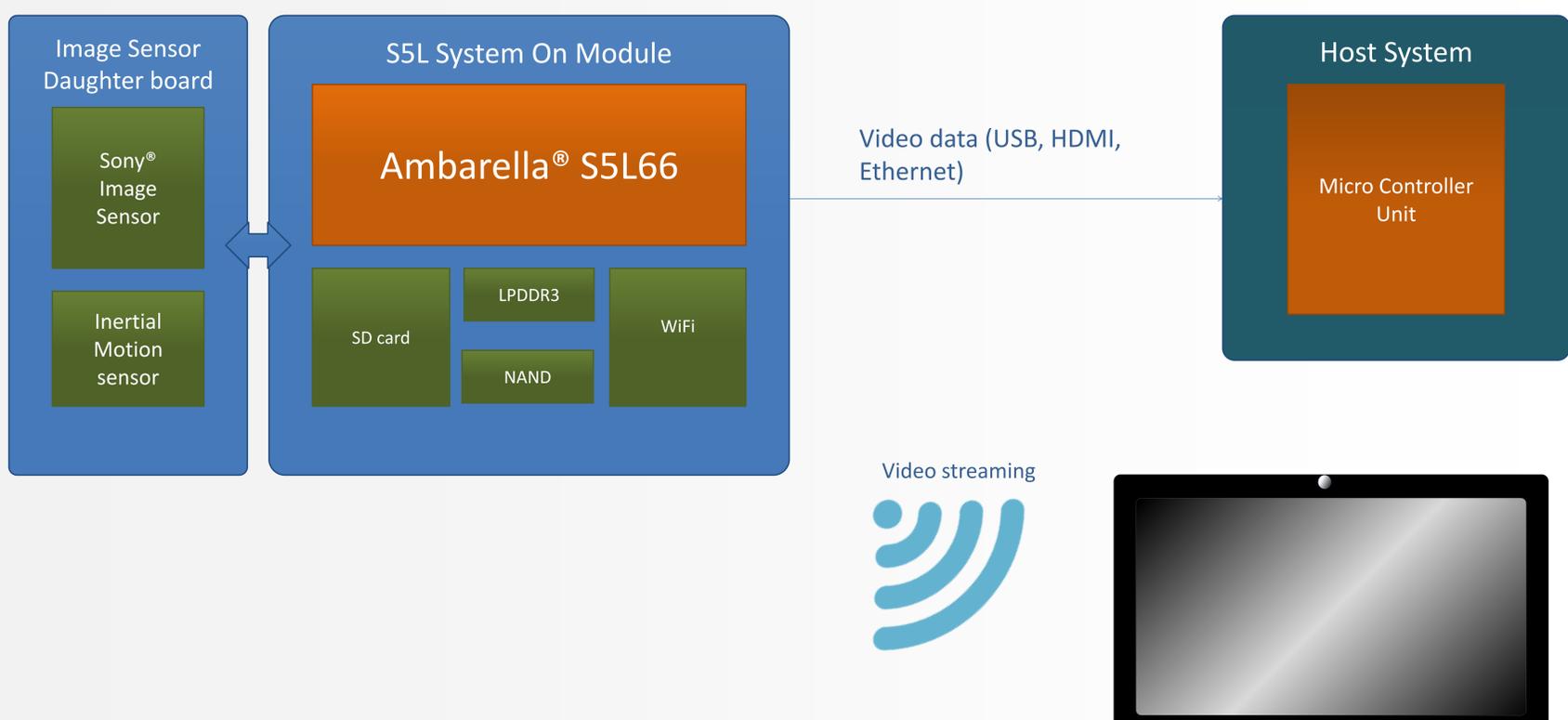
- Ambarella® S5L66™ SoC
  - Dual image sensor support:
    - Primary sensor: MIPI CSI-2 4-lane or SLVS 8-lane
    - Secondary sensor: MIPI CSI-2 4-lane or SLVS 4-lane
  - 8Gb LPDDR3 DRAM
  - 4Gb internal NAND storage
  - Gbit Ethernet <sup>2</sup>
  - WiFi (802.11a/b/g/n/ac)
  
  - Sony® 8.42Mpx (Type 1/2.8") image sensors with tuned image quality
    - Optical lens DFOV 123°, physical dimensions 28 mm (length) x 17 mm (diameter)
    - Power input: 5V from USB or 3.5-5V from board-to-board connector
- Li-ion battery support <sup>2</sup>
  - On-board mono digital microphone
  - Speaker and stereo analog microphones support <sup>2</sup>
  - SD card support
  - 3-axis accelerometer, 3-axis gyroscope,
  - Interfaces:
    - 8-bit parallel video output interface for LCD
    - HDMI 2.0
    - I<sup>2</sup>S
    - Wide range of peripheral interfaces (UART 3x, I<sup>2</sup>C 2x, SPI, ADC x2, GPIOs)
    - USB 2.0 DEVICE and USB 2.0 HOST
  - Operating temperature -20°C to 75°C <sup>3</sup>
  - Main board physical dimensions 63.5 x 46 mm

<sup>2</sup> Available on daughter boards

<sup>3</sup> Temperature range of main board; daughter boards temperature range may be different

## Block Diagram

The diagram below illustrates S5L System On Module interaction with Host System



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