

# Alvium GM2

Alvium GM2-210



Alvium GM2-210 innovative GMSL2 camera with ON Semi AR0521 CMOS rolling shutter sensor provides industrial performance for cost effective embedded applications.

## General

|                 |                |
|-----------------|----------------|
| Model:          | Alvium GM2-210 |
| Product series: | Alvium GM2     |
| Status:         | Available      |

## Sensor

|                                 |                            |
|---------------------------------|----------------------------|
| Sensor type:                    | Area scan                  |
| Chroma:                         | Mono or Color              |
| Spectrum:                       | Visible                    |
| Spectral range:                 | 300 nm to 1100 nm          |
| Resolution:                     | 1,928 × 1,088 (2.10 MP)    |
| Sensor model:                   | ON Semi AR0521SR (HD mode) |
| Sensor architecture (material): | CMOS                       |
| Shutter type(s):                | Rolling Shutter            |
| Sensor size:                    | 4.9 mm ø (Type 1/3.6)      |
| Pixel size:                     | 2.20 µm × 2.20 µm          |

## Pixel formats

|                           |                                    |
|---------------------------|------------------------------------|
| Sensor bit depth:         | 10-bit                             |
| Monochrome pixel formats: | RAW8, RAW10, RAW12, GREY, Y10, Y12 |
| YUV pixel formats:        | YUV422 8-bit, UYVY                 |
| RGB pixel formats:        | RGB888 (default), RGB3             |

## Imaging performance

Quantum efficiency @ 529 nm: 79 %

## Timing and gain

Max. frame rate: Mainly depends on hardware and register settings.

## I/Os and power

Non-isolated lines: 2 programmable GPIOs

I/O connector: Coax, STP

Power supply: 5 VDC over MIPI CSI-2

Power consumption: Value for the integrated serializer adds to CSI-2 model value.

## Operating conditions

Operating temperature (housing): -20 °C to 65 °C (housing)

## Mechanical properties

Body dimensions (L x W x H in mm): 41 × 29 × 29

Lens mount(s): C-Mount, CS-Mount, S-Mount

Weight: 70 g

## On-board memory and FPGA

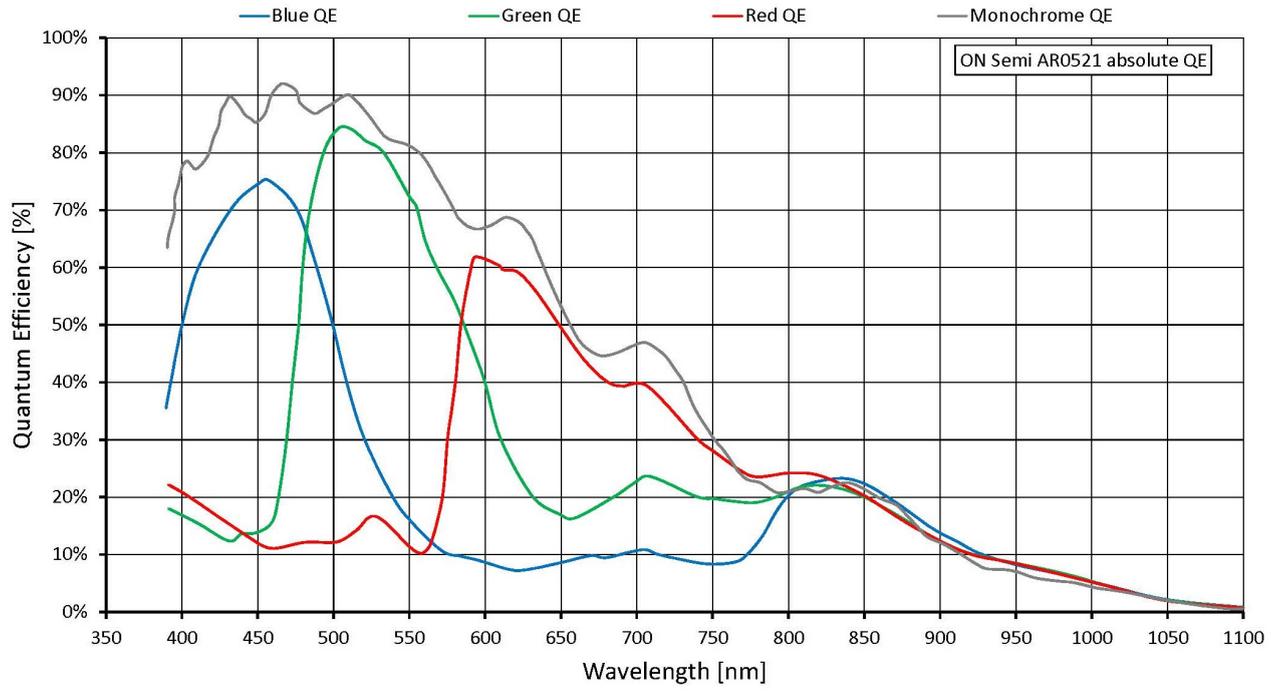
Image buffer (RAM): 256 KByte

Non-volatile memory (Flash): 1024 KByte

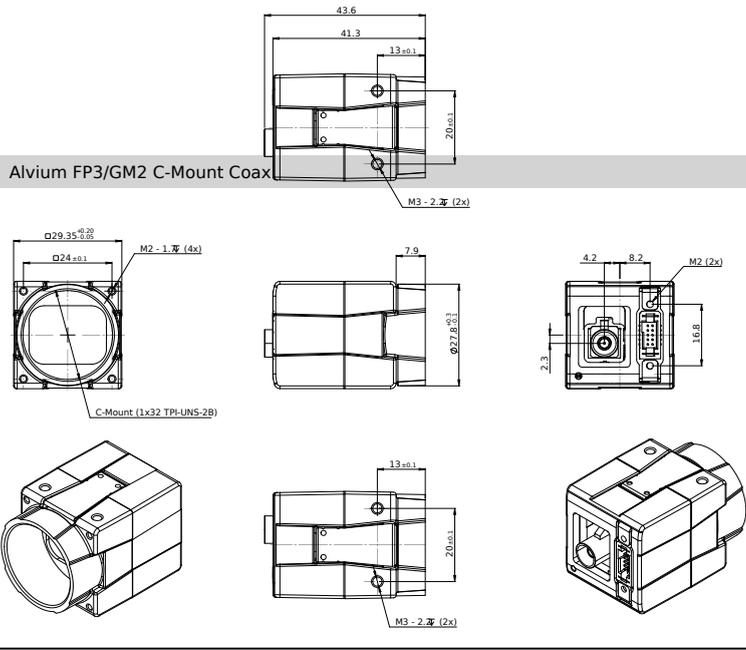
## Interfaces

Digital interface: GMSL2, based on MIPI CSI-2, up to 4 lanes

# Quantum Efficiency



Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP

