

# Alvium FP3

## Alvium FP3-501 NIR



Alvium FP3-501 NIR innovative FPD-Link III camera with ON Semi AR0522 CMOS rolling shutter sensor provides industrial performance for cost effective embedded applications.

### General

Model:	Alvium FP3-501 NIR
Product series:	Alvium FP3
Status:	Available

### Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible-NIR
Spectral range:	300 nm to 1100 nm
Resolution:	2,592 × 1,944 (5.00 MP)
Sensor model:	ON Semi AR0522
Shutter type(s):	Rolling Shutter
Sensor size:	7.13 mm ø (Type 1/2.5)
Pixel size:	2.20 µm × 2.20 µm

### Pixel formats

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

## Imaging performance

Quantum efficiency @ 529 nm: 84 %

## Timing and gain

Max. frame rate: 24.1

Exposure time: 8  $\mu$ s to 480.00 ms

Gain: 0.0 dB to 24.1 dB

## 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

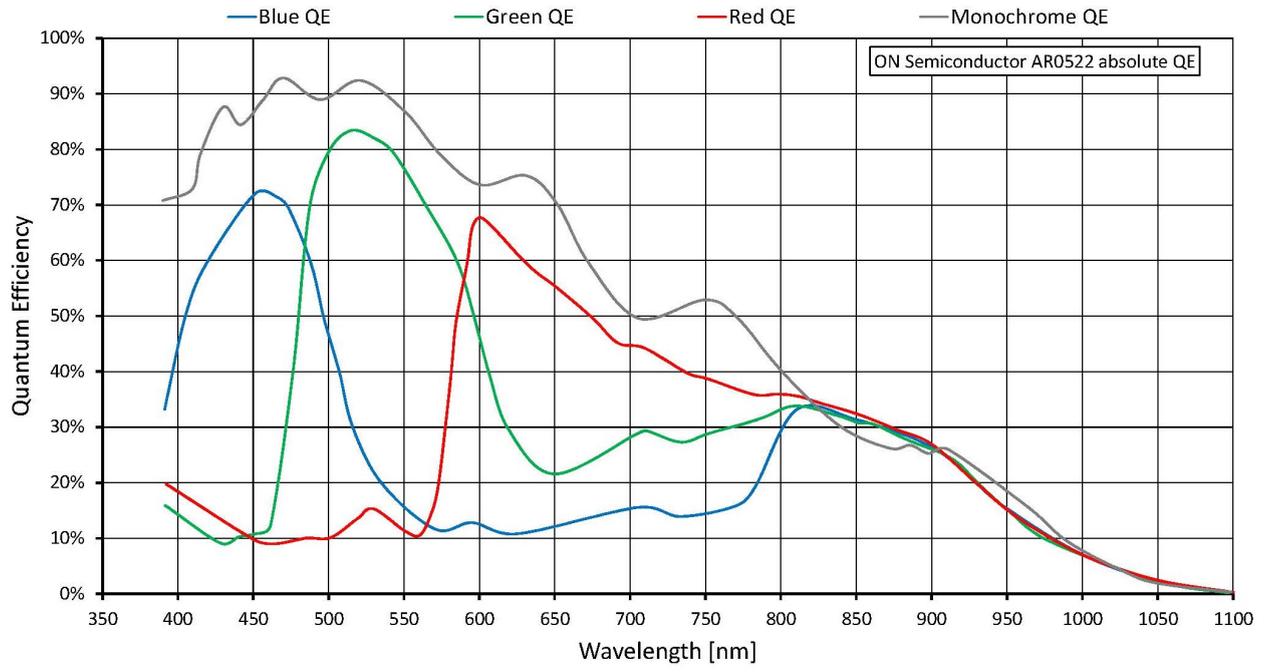
Image buffer (RAM): 256 KByte

Non-volatile memory (Flash): 1024 KByte

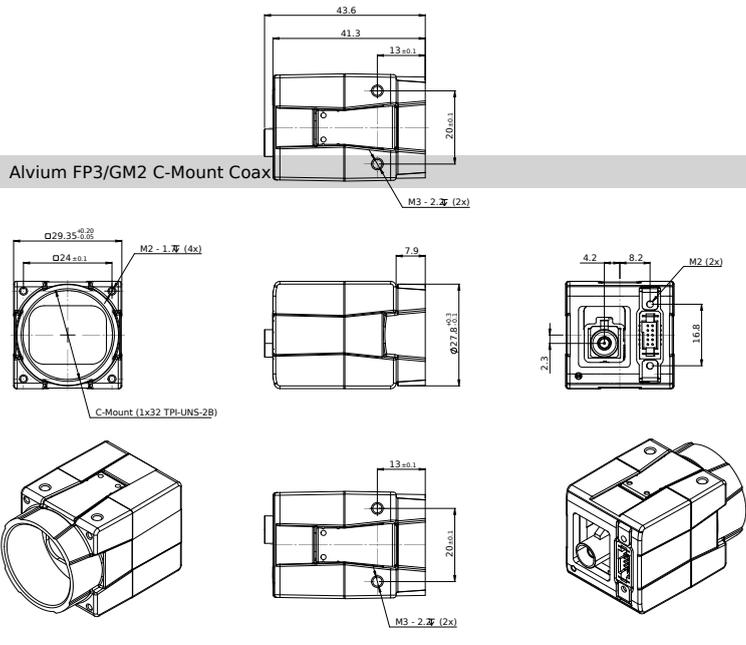
## Interfaces

Digital interface: FPD-Link III, based on MIPI CSI-2, up to 4 lanes

# Quantum Efficiency



Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP

