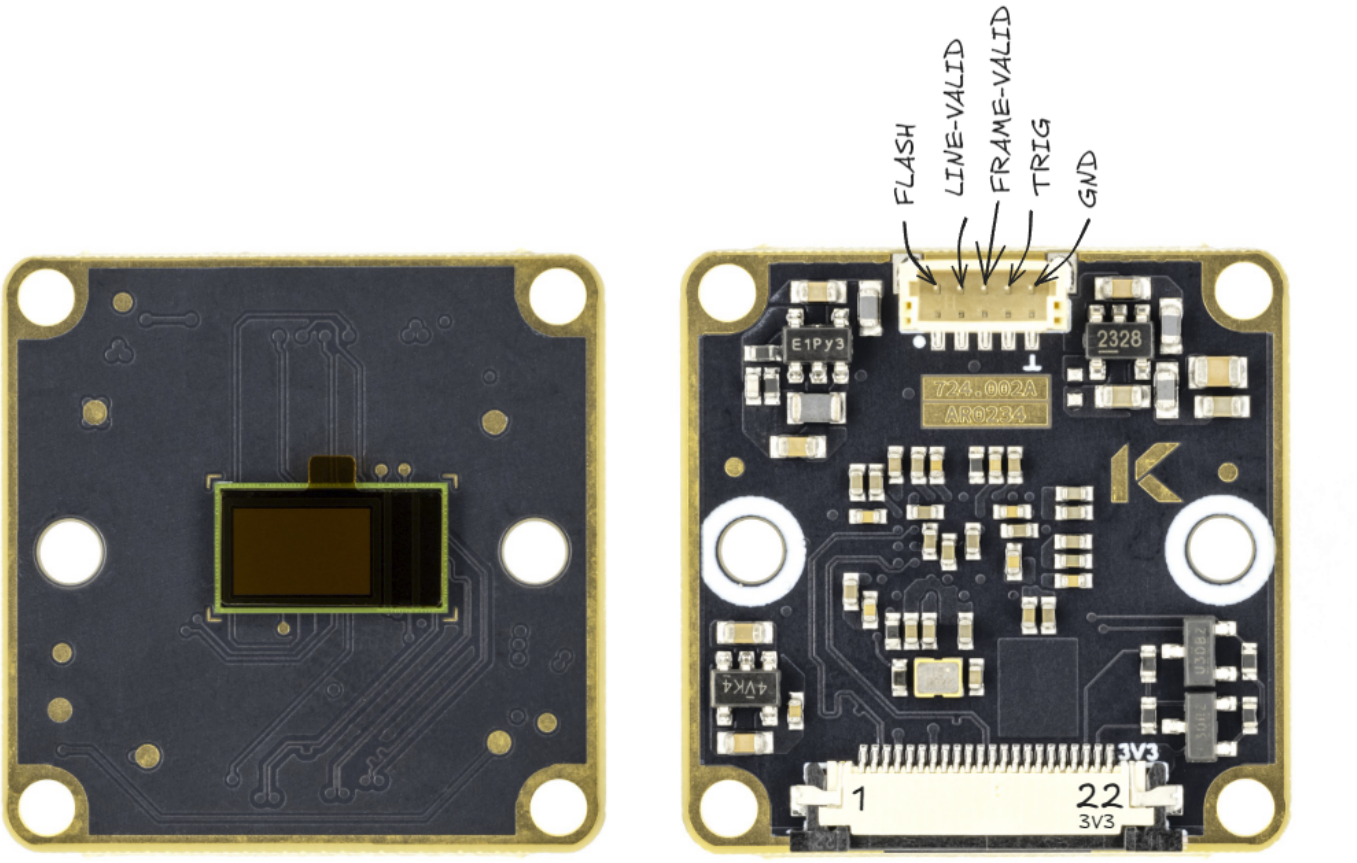
# 234x-CSI

The AR0234CS is a 2.3-megapixel global shutter CMOS sensor that uses a 3.0µm pixel array of 1920 x 1200, giving a 1/2.6″ (6.8mm diagonal) optical format. It outputs 8 or 10 bit RAW through up to four MIPI CSI-2 lanes at 900 Mb/s per lane. Default streaming reaches 120 fps at full resolution, while a 2×2 binned 960 x 600 window delivers 237fps. Best suitable for: bar-code scanners, gesture-recognition devices, 3D scanners, positional tracking systems, iris scanning terminals, augmented reality headsets, virtual reality headsets, biometric sensors, machine-vision cameras, and industrial-inspection equipment.

## Camera variants

| SKU | Lens mount | Chroma | Note |
|---|---|---|---|
| 234C-CSI-M12 | 9.5mm for wide angle lenses | RGB Color | **Most common use for wide angle and fish-eye lenses.** |
| 234C-CSI-M12L | 14.7mm for regular and telephoto lenses | RGB Color | **Modification for lenses above 6mm (typical)** |
| 234C-CSI | No lens mount | RGB Color | Bare sensor board without lens mount |
| 234C-CSI-CS | CS lens mount | RGB Color | Boxed camera with CS mount and IRCUT filter. |

## Pinout




Interface connector 22pin 0.5mm pitch 687122183622 from Würth Elektronik. Top facing pins.

| Pin | Signal | Description |
|---|---|---|
| 1 | GND | |
| 2 | D0_N | |
| 3 | D0_P | |
| 4 | GND | |
| 5 | D1_N | |
| 6 | D1_P | |
| 7 | GND | |
| 8 | CLK_N | |
| 9 | CLK_P | |
| 10 | GND | |

| | | |
|---|---|---|
| 11 | D2_N | |
| 12 | D2_P | |
| 13 | GND | |
| 14 | D3_N | |
| 15 | D3_P | |
| 16 | GND | |
| 17 | ENABLE | Wired to sensor RESET_N |
| 18 | N.C. | |
| 19 | GND | |
| 20 | SCL | |
| 21 | SDA | |
| 22 | +3.3V | |

# AUX wiring

Interface connector 5 pin 1mm pitch 665305124022 from Würth Elektronik.

| Pin | Signal | Description |
|---|---|---|
| 1 | FLASH | |
| 2 | LINE-VALID | |
| 3 | FRAME-VALID | |
| 4 | TRIG | |
| 5 | GND | |

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