



# FXO 10GigE

## fxo902MXGE-M42

Preliminary product information. Features and technical specifications are subject to change without notice.

### General

|                |                |
|----------------|----------------|
| Model          | fxo902MXGE-M42 |
| Product code   | F002474        |
| Product series | FXO 10GigE     |
| Status         | Coming soon    |

### Sensor

|                                |                                     |
|--------------------------------|-------------------------------------|
| Sensor type                    | Area scan                           |
| Chroma                         | Mono                                |
| Spectrum                       | Visible                             |
| Spectral range                 | 400 nm to 1000 nm                   |
| Resolution                     | 6,048 × 2,048 (12.40 MP)            |
| Sensor model                   | Sony IMX902                         |
| Sensor architecture (material) | cmos                                |
| Shutter type(s)                | Global shutter (GS)                 |
| Sensor size                    | 16.57 × 5.61 mm (17.5 mm, Type 1.1) |
| Pixel size                     | 2.74 µm × 2.74 µm                   |

### Pixel formats

|                          |               |
|--------------------------|---------------|
| Sensor bit depth         | 8-bit, 12-bit |
| Monochrome pixel formats | mono8, mono12 |

### Timing and gain

|                 |                   |
|-----------------|-------------------|
| Max. frame rate | 98.1 fps          |
| Exposure time   | 7 µs to 60 s      |
| Gain            | 0.0 dB to 48.0 dB |

## I/Os and power

|                             |                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------|
| Non-isolated lines          | 0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output, |
| Specific non-isolated lines | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| Opto-isolated lines         | 1 x Optical isolated input, 0 x Optical isolated input,                                               |
| I/O connector               | 12-pin Hirose HR10A-10P-12S                                                                           |
| Power supply                | 10 to 25VDC, Power over Ethernet                                                                      |
| Power consumption           | External: 11 W (typical)                                                                              |

## Operating conditions

|                                 |                 |
|---------------------------------|-----------------|
| Operating temperature (housing) | -10 °C to 60 °C |
|---------------------------------|-----------------|

## Mechanical properties

|                                   |                             |
|-----------------------------------|-----------------------------|
| Body dimensions (L x W x H in mm) | 76 x 50 x 50                |
| Filter/protection glass           | K9 - AR coating - 380-850nm |
| IP class                          | IP30                        |
| Lens mount(s)                     | M42x0.75                    |
| Weight                            | 240 g                       |

## On-board memory and FPGA

|                             |           |
|-----------------------------|-----------|
| Image buffer (RAM)          | 896 MByte |
| Non-volatile memory (Flash) | 32 MByte  |

## Interfaces

|                     |                 |
|---------------------|-----------------|
| Digital interface   | 10gige          |
| Interface connector | (RJ-45)         |
| Vision standard     | GigE Vision 2.0 |

## FW features - image control

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Exposure modes         | manual, auto, external                               |
| Gain modes             | auto, manual                                         |
| Image control features | roi, lut, mirror-image, dpc, shading-correction, ffc |

## FW features - camera control

|                    |                              |
|--------------------|------------------------------|
| Trigger modes/sync | internal, software, external |
|--------------------|------------------------------|

## FW features - camera control

Camera control features

PTP, User Sets, POE, PWM(4), Sequencer,

preliminary