Allied Vision

FXO 100GigE

fxo926M100GE

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

General

Model	fxo926M100GE
Product code	F002400
Product series	FXO 100GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	350 nm to 1000 nm
Resolution	4,096 × 3,008 (12.30 MP)
Sensor model	Sony IMX926
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	11.22 × 8.24 mm (13.92 mm, 14mm (Type 1/1.1))
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	8-Bit,12-Bit
Monochrome pixel formats	mono8, mono12, mono12packed

Timing and gain

Max. frame rate	660.8 fps
Exposure time	4 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, 2 x Open drain output,
Specific non-isolated lines	0 x RS232 input, 0 x RS232 output, 1 x RS422 input, 1 x RS422 output,
Opto-isolated lines	0 x Optical isolated input, 0 x Optical isolated input,
Power supply	24 to 25VDC
Power consumption	External: 26 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	101 × 58 × 58
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	C-Mount
Weight	450 g

On-board memory and FPGA

Image buffer (RAM)	4032 MByte
Non-volatile memory (Flash)	32768 MByte

Interfaces

Digital interface	100gige
Interface connector	(QSFP28)

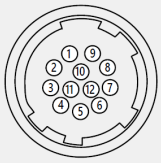
FW features - image control

Exposure modes	Manual, Auto, External
Gain modes	Auto, Manual
Image control features	FW Features - Image Control

FW features - camera control

Camera control features	PTP, RDMA support, User Sets, PWM(4), Sequencer,

I/O pin assignment



Hirose 12 Pin

1	V In- (GND)
2	V In+ (24 V DC)
3	In 4 (RxD RS232)
4	Out 4 (TxD RS232)
5	In 1 (0 ... 24 V)
6	In 2 (0 ... 24 V
7	Out 1 (open drain)
8	Out 2 (open drain)
9	In 3+ (opto In+)
10	In 3- (opto In-)
11	Out 3 (open drain)
12	Out 0 (open drain)