Allied Vision



FXO 10GigE

fxo547MXGE-RF

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

preliminary

General

Model	fxo547MXGE-RF
Product code	F002489
Product series	FXO 10GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	2,448 × 2,048 (5.00 MP)
Sensor model	Sony IMX547
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	6.71 × 5.61 mm (8.75 mm, Type 1/1.8)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

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

Imaging performance

Dynamic range	72 dB
SNR	39 dB

Timing and gain

Max. frame rate	124 fps
Exposure time	6 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: 9 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	99 × 69 × 69
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	RF-Mount
Weight	260 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

preliminary

FW features - image control

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

preliminary