Allied Vision



FXO 25GigE

fxo531C25GE-RF

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

General

Model	fxo531C25GE-RF
Product code	F002456
Product series	FXO 25GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	4,512 × 4,512 (20.40 MP)
Sensor model	Sony IMX531
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	12.36 × 12.36 mm (17.48 mm, Type 1.1)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	8-bit, 12-bit
RGB pixel formats	bayer8, bayer12

Imaging performance

Dynamic range	72 dB
SNR	39 dB

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Timing and gain

Max. frame rate	109.5 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, 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 consumption	External: 19 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	98 × 69 × 69
Filter/protection glass	IR-Cut - 680nm
IP class	IP30
Lens mount(s)	RF-Mount
Weight	350 g

On-board memory and FPGA

Image buffer (RAM)	4032 MByte
Non-volatile memory (Flash)	128 MByte

Interfaces

Digital interface	25gige
Interface connector	(SFP28)
Vision standard	GigE Vision 2.0, 3.0

FW features - image control

Exposure modes	manual, auto, external

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FW features - image control

Gain modes	auto, manual
White balance modes	auto, manual
Image control features	roi, lut, color-transformation, mirror-image

FW features - camera control

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

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