

AtlasTM 25

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25GigE with Direct LC Fiber Connection and RDMA

25GiGE+RDMA

- Optimized with Remote Direct Memory Access (RDMA)
- Fanless case, no heatsinks required
- Wide operating temp -20 to 50°C ambient.
- Active sensor alignment
- Integrated optical transceiver
- 17-pin M12 GPIO



Atlas25 Models

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	Chroma	GigE Interface
ATV245S	24.5 MP	5320 x 4600 px	89.2 fps	Sony IMX530 CMOS	4/3"	2.74 µm	Global	C-mount	M/C	25GigE, LC Fiber Optic
ATV204S	20.4 MP	4510 x 4510 px	104 fps	Sony IMX531 CMOS	1.1"	2.74 µm	Global	C-mount	M/C	25GigE, LC Fiber Optic
ATV162S	16.2 MP	5320 x 3040 px	152 fps	Sony IMX532 CMOS	1.1"	2.74 µm	Global	C-mount	M/C	25GigE, LC Fiber Optic
ATV124S	12.3 MP	4096 x 3000 px	184 fps	Sony IMX535 CMOS	1/1.1"	2.74 µm	Global	C-mount	M/C	25GigE, LC Fiber Optic

*Preliminary Specifications

Interface, Power, and Size Information	
Digital Interface	Duplex LC Fiber Optic
Transport Layer Protocol	UDP (GigE Vision), RDMA (RoCE v2)
GPIO Interface	17 pin M12 connector
Opto-isolated I/O ports	1 input, 3 output
Non-isolated I/O ports	2 bi-directional
Differential I/O ports	RS-422: 3 positive, 3 negative
Dimensions	55 x 55 x 99.5 mm
Lens Mount	C-mount
Weight	TBD
Power Requirement	12-24 VDC external (TBD)
Power Consumption	(TBD)

Standard and Certifications	
Standard	GigE Vision v3.0
Compliance	CE, FCC, RoHS, REACH, WEEE
Storage Temperature	-30 to 60°C
Operating Temperature	-20 to 55°C Ambient
Humidity	Operating: 20% ~ 80%, relative, non-condensing
Storage Humidity	20% ~ 95%, relative, non-condensing
Shock and Vibration	DIN EN 60068-2-27, DIN EN 60068-2-64
Warranty	3 years

Imaging Properties	
Image Buffer	880 MB
Image Processing	Gain, gamma, black level, LUT, pixel correction
Pixel Formats	Mono8/10/12/16, Bayer8/10/12/16, RGB8, BGR8, YCbCr8, YCbCr411, YUV422, YUV411
Image Modes	Horizontal and vertical binning, decimation, ROI, horizontal and vertical flip
ADC	8, 10, 12 bit
Gain Range	0 dB to 48 dB analog and digital
Exposure Time	30 µs to 10 s

Camera Features	
User Sets	1 default and 2 custom
File system size	16 MB
Chunk Data	Timestamp, frame counter, offset X/Y, width/height, exposure time, gain, black level, line status, sequencer set
Event Data	Exposure start/end
Counter & Timer	2 counters and 2 timers
Sequencer	Exposure time, gain
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)

This datasheet contains preliminary specifications and is subject to change.

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CASE TYPE	MODELS
LW TYPE	ATV204S ATV245S
SW TYPE	OTHER MODELS

