

Atlas10

High-Speed 10GigE Camera (10GBASE-T) with RDMA and PoE+



GigE VISION GEN*i*>CAM

10GigE+RDMA with Power over Ethernet **Pregius S** 4th GENERATION

- 10GigE performance optimized with RDMA
- Up to 1.2 GB/s data transfer rates
- Global and rolling shutter CMOS sensors
- Active Sensor Alignment, PoE+

VISION SYSTEMS
2023 **Innovators Awards**
PLATINUM HONOREE



Atlas10 Models

| Model | MP | Resolution | FPS | Sensor | Format | Pixel Size | Shutter | Lens Mount | Chroma | GigE Interface |
|---------|---------|----------------|-----------|-----------------------|--------------|------------|---------|--------------------------------|--------|----------------|
| ATX650G | 65.0 MP | 9344 x 7000 px | 14.1 fps | Gpixel GMAX3265 CMOS | 2.3" | 3.2 µm | Global | TFL-II (M48 x 0.75) / No-mount | M/C | 10GBASE-T, M12 |
| ATX470S | 47.0 MP | 8240 x 5628 px | 23.2 fps | Sony IMX492 CMOS | 1.4" | 2.315 µm | Rolling | TFL (M35 x 0.75) / No-mount | M/C | 10GBASE-T, M12 |
| ATX450N | 45.0 MP | 8192 x 5460 px | 16.0 fps | onsemi XGS 45000 CMOS | Super 35 mm | 3.2 µm | Global | TFL-II Mount | M/C | 10GBASE-T, M12 |
| ATX314S | 31.4 MP | 6464 x 4852 px | 35 fps | Sony IMX342 CMOS | APS-C 27.9mm | 3.45 µm | Global | TFL (M35 x 0.75) / No-mount | M/C | 10GBASE-T, M12 |
| ATX245S | 24.5 MP | 5320 x 4600 px | 45.4 fps | Sony IMX530 CMOS | 4/3" | 2.74 µm | Global | TFL (M35 x 0.75) / C-mount | M/C | 10GBASE-T, M12 |
| ATX204S | 20.4 MP | 4510 x 4510 px | 54.1 fps | Sony IMX531 CMOS | 1.1" | 2.74 µm | Global | C-mount | M/C | 10GBASE-T, M12 |
| ATX162S | 16.2 MP | 5320 x 3040 px | 76.1 fps | Sony IMX532 CMOS | 1.1" | 2.74 µm | Global | C-mount | M/C | 10GBASE-T, M12 |
| ATX124S | 12.3 MP | 4096 x 3000 px | 89.7 fps | Sony IMX535 CMOS | 1/1.1" | 2.74 µm | Global | C-mount | M/C | 10GBASE-T, M12 |
| ATX081S | 8.1 MP | 2840 x 2840 px | 136.7 fps | Sony IMX536 CMOS | 2/3" | 2.74 µm | Global | C-mount | M/C | 10GBASE-T, M12 |
| ATX051S | 5.0 MP | 2448 x 2048 px | 205 fps | Sony IMX537 CMOS | 1/1.8" | 2.74 µm | Global | C-mount | M/C | 10GBASE-T, M12 |



Atlas10 Right-Angle Model

| Model | MP | Resolution | FPS | Sensor | Format | Pixel Size | Shutter | Lens Mount | Chroma | GigE Interface |
|-----------|---------|----------------|----------|------------------|--------|------------|---------|------------|--------|----------------|
| ATX204S-R | 20.4 MP | 4504 x 4504 px | 54.1 fps | Sony IMX531 CMOS | 1.1" | 2.74 µm | Global | C-Mount | M/C | 10GBASE-T, M12 |



All Atlas10 cameras feature LUCID's RDMA (RoCE v2) implementation for bypassing the CPU and OS during camera streaming, reducing CPU usage and improving reliability. To learn more about the hardware required for RDMA visit the [Atlas10 product page](#).



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High-Speed 10GigE Camera (10GBASE-T) with RDMA and PoE+



Specifications

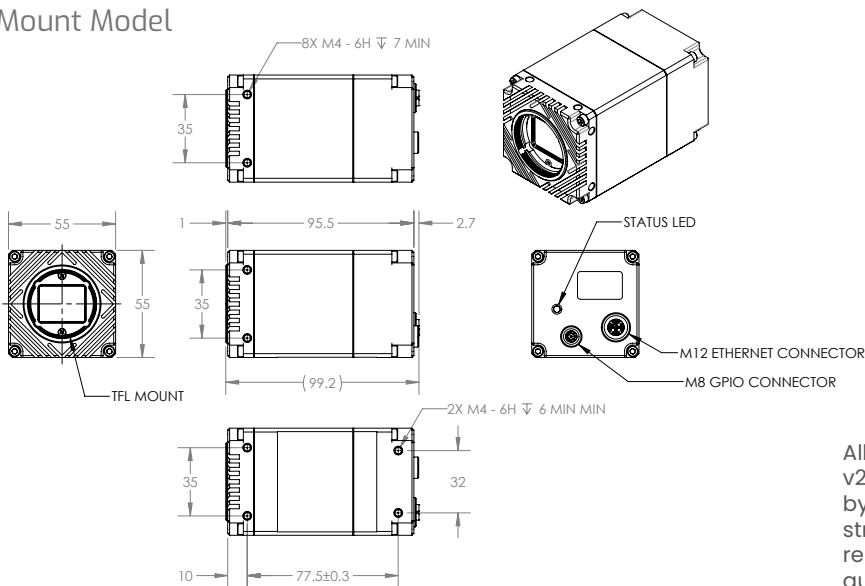
| Interface, Power, and Size Information | |
|--|---|
| Digital Interface | 10GBASE-T*, 5GBASE-T, 2.5GBASE-T, 1000BASE-T, 100BASE-TX MI2, PoE (*10GBASE-T runs in short reach mode, 25m cable length max) |
| Transport Layer Protocol | UDP (GigE Vision), TCP, RDMA (RoCE v2) |
| GPIO Interface | 8 pin M8 connector |
| Opto-isolated I/O ports | 1 input, 1 output |
| Non-isolated I/O ports | 2 bi-directional |
| Dimensions | 55 x 55 x 95.5 mm |
| Lens Mount | TFL-Mount, C-Mount |
| Weight | 304 g |
| Power Requirement | PoE+ (IEEE 802.3at), or 12-24 VDC through GPIO |
| Power Consumption | <12W via PoE+, 11.5W when powered externally |

| Standard and Certifications | |
|-----------------------------|--|
| Standard | GigE Vision v2.0 |
| Compliance | CE, FCC, RoHS, REACH, WEEE |
| Storage Temperature | -30°C to 60°C |
| Operating Temperature | -20°C to 50°C ambient |
| Humidity | Operating: 20% ~ 80%, relative, non-condensing |
| Warranty | 3 year |

| Imaging Properties | |
|--------------------|--|
| Image Buffer | 380 MB |
| Image Processing | Gain, gamma, black level, white balance, LUT, CCM, pixel correction, hue, saturation, color space conversion |
| 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 user set |
| File system size | 16 MB |
| Chunk Data | 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) |

TFL-Mount Model



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