

Embedded Industrial Machine Vision Computer

The VisionBoxes AGE-X of the 5th generation consist of IMAGO's unique Real-Time Communication Controller (RTCC) and Intel i-core processors. Vision Interfaces are Camera Link (up to 1 × Deca or 2 × Base), Quad-GigE with optional Trigger-and-Power-over-Ethernet, 5GBase-T-Ethernet, current-driven outputs for LED lighting, RS-422 for encoder-In- & Output and digital I/Os.

Key Features

- Trigger-over-Camera-Link
- Trigger-over-Ethernet
- LED Controller and Camera Trigger Lines
- RS-422 In/Out for encoder
- Digital In/Out with opto-isolators



sample configuration

- Computing power: up to Quad-core i7 with 65 W TDP
- Windows 10 IoT / Debian based Linux
- Embedded system / fanless design
- Long-term availability

Specializing in GigE cameras

Camera Interface	4 × GigE Vision [Option: 2 × 5GBase-T & 2 × GigE Vision]
Camera Power Supply	[Option: 4 × Power-over-Ethernet]
Camera Trigger	2 or 4 × separate channel [& Option 4 × Real-Time Trigger-over-Ethernet]
LED Controller ($\frac{1}{2} A_{\text{continuous}} / 6 A_{\text{Peak}}$)	2 or 4 × current-controlled
Encoder Interface RS-422	0 or 4 × Input

Specializing in Camera Link cameras

Camera Interface	1 × Deca/Full/Medium/Base [Option: 2 × Base] with 2 × SDR 26
Camera Power Supply	Power-over-Camera-Link
LED Controller ($\frac{1}{2} A_{\text{continuous}} / 6 A_{\text{Peak}}$)	0 or 2 × current-controlled
Encoder Interface RS-422	3 × Input / 3 × Output (for daisy chain)

Standard Interfaces

Digital I/O	8 × Input / 8 × Output or 16 × Input / 16 × Output, opto-isolated, 24V
Ethernet for LAN	1 × 1000 Mbit/s [Option: 3 × 1000 Mbit/s]
USB 3.0	4 × for external peripherals (Ask for IMAGO's recommendations using USB as a camera port)
USB 2.0	2 × under service hatch for dongles
DisplayPort, 60 Hz	1 ×
Mini PCIe	1 × (e.g. for field bus, Dual-GigE, ...)

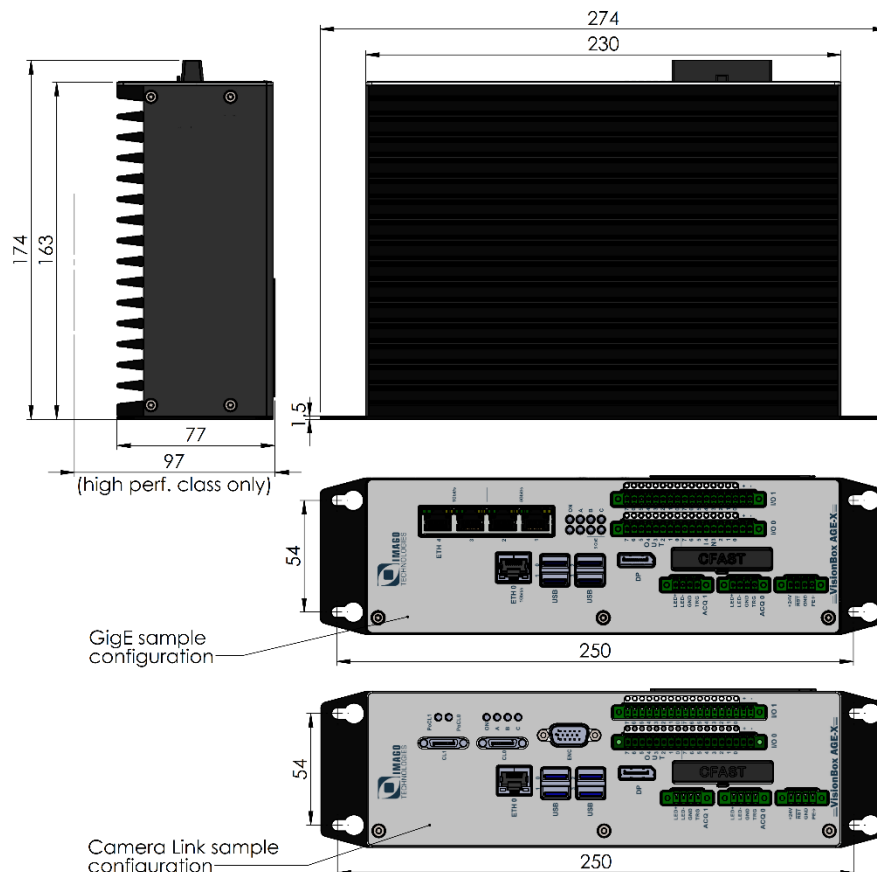
Processor / Storage

Performance Class	Low	Mid	High
Examples (others upon request)	G3900	i5-6500TE	i7-7700
DDR RAM	2 × 4 GB DDR4 - 2 × 16 GB DDR4		
Mass Storage	1 × CFast ≥ 120 GB		

Mechanical / Electrical

Power Consumption* ¹	32 W	65 W	105 W
<small>*¹TDP Workload, without PoE,PoCL</small>			
Power Supply	18 V _{DC} – 30 V _{DC}		
Power Supply Current Rating (peak current)	1.4 A	3.2 A	5.3 A
Temperature Range	+5 °C ... +45 °C		+5 °C ... +40 °C
Weight	2400 g		3500 g
Dimensions (H x W x D) <small>*²High class only</small>	230 mm × 164 mm × 77 (97* ²) mm Mounting Plate: 274 mm × 77 mm		
Mounting Support	4 × M5		
Service Flap	Access to 2x internal USB 2.0 connector (Dongle / USB stick)		

Dimensions



Ask for existing models or the MOQ of your individual configuration.