



VisionBox AGE-X5

Real-Time Vision Box-PC

REAL-TIME VISION BOX-PC Vision Box AGE-X5

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 port)	4 × for external peripherals (Ask for IMAGO's recommendations using USB as a camera
USB 2.0	2 × under service hatch for dongles
DisplayPort, 60 Hz	1 ×
Mini PCIe	1 × (e.g. for field bus, Dual-GigE, ...)

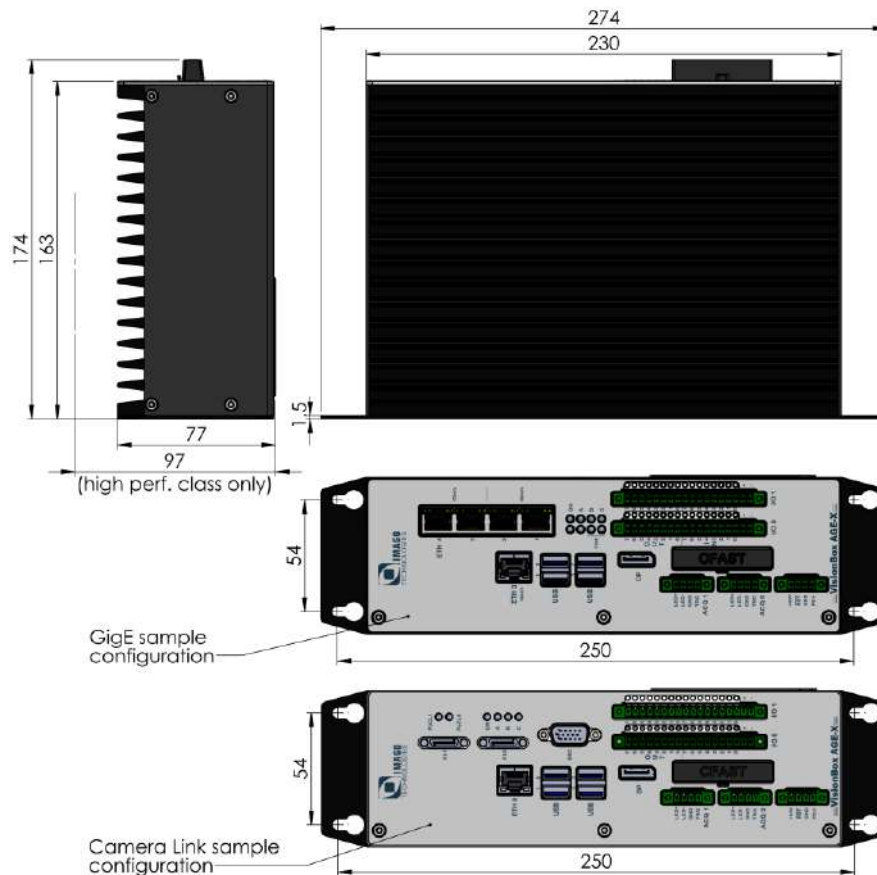
Processor / Storage

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

Mechanical / Electrical

Power Consumption*1	32 W	65 W	105 W
*1 TDP Workload, without PoE, PoCL			
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)	230 mm x 164 mm x 77 (97*2) mm		
*2 High class only			
Mounting Support	4 x M5		
Service Flap	Access to 2x internal USB 2.0 connector (Dongle / USB stick)		

Dimensions



The smartest embedded vision components

For more than 25 years, IMAGO has been supplying machine vision technology to machine builders to improve product quality, make processes smoother, avoid production errors, reduce manufacturing costs and make systems more efficient.



What we do

With the focus on what counts for our customers, we develop hardware components for industrial image processing. Be it in factory automation, the printing industry, for the food and beverage industry, pharmaceutical or logistics industry. IMAGO supplies vision systems, smart cameras, vision sensors and the appropriate software for the optimized use of our products. We pay special attention to miniaturization, high frame rates, increasing computing power and environmentally friendly power consumption. These characteristics already distinguish our products today.

And we are proud of them.