* Product may vary slightly from image

Vision Box AGE-X5.1

Real-Time Vision Box PC

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Vision Box AGE-X5.1

For machine vision applications that require a powerful and flexible PC as a computing platform, the Vision Box AGE-X5.1 is a versatile and attractive option that has been specially designed for machine vision requirements. The Vision Box AGE-X5.1 is characterized by a compact design, passive cooling, current-driven outputs for LED lighting as well as real-time I/Os and is available in versions for Camera Link, GigE Vision and 5Gbase-T cameras. IMAGO's unique Real-Time Communication Controller (RTCC) provides user-programmable logic and internal units for I/Os.

Key Features

- 4 x GigE Interfaces
- CFast Card for easy OS/app change
- Digital In/Out with opto-isolators
- LED strobe channels

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Processor / Storage

Type	Pentium G6400E	i5-10500TE	i7-10700TE
Processor Clock	2 x 3.8 GHz	6 x 2.3 GHz	8 x 2.0 GHz
Turbo	-	up to 3.7 GHz	up to 4.40 GHz
DDR RAM	8 GB - 32 GB DDR4 RAM	8 GB - 32 GB DDR4 RAM	8 GB - 32 GB DDR4 RAM
Mass Storage	1 x CFast ≥ 240 - 480 GB	1 x CFast ≥ 240 - 480 GB	1 x CFast ≥ 240 - 480 GB

Interfaces

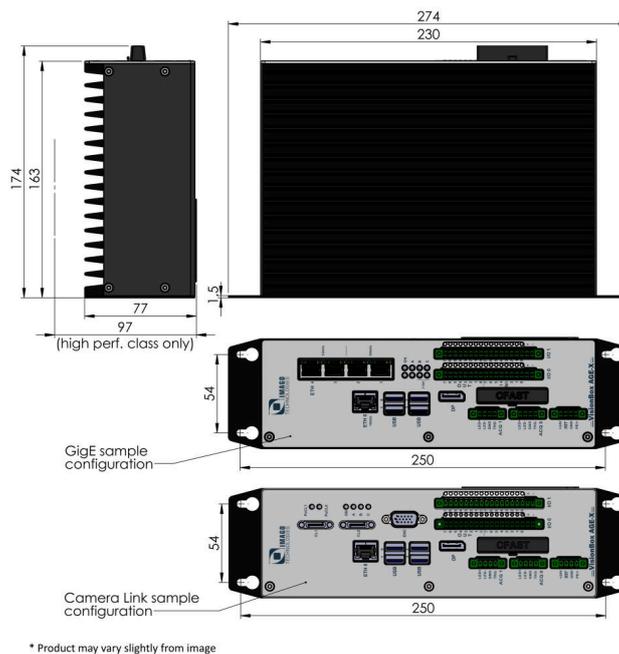|	
Ethernet	5 x 2.5 Gbit/s Optional: 1 x 2.5 Gbit/s + 4 x 1 Gbit/s or 1 x 2.5 Gbit/s + 4 x 1 Gbit/s, TaPoE
Digital I/O	8 -16 x Input / 8 - 16 x Output, opto-isolated, 24V
Display Interfaces	1 x Display Port, 60Hz
USB	2 x USB 2.0 Internal 4 x USB 3.0
Serial	4 x RS-422 Input (Optional)
Mini PCIe	1 × CAN-Bus (Optional)
LED Controller	2 - 4 x Current Controlled, 0.5 A Continuous, 6 A Peak

Mechanical / Electrical

Power Consumption	~61 W (Pentium G6400E)	~65 W (i5-10500TE)	~68 W (i7-10700TE)
Power Supply	18 VDC - 30 VDC (Pentium G6400E, i5-10500TE)	21 VDC - 30 VDC (i7-10700TE)
Power Supply Current Rating (peak current)	~2.5 A (Pentium G6400E)	~5.4 A (i5-10500TE)	~7.8 A (i7-10700TE)
Certification	IP40, CE
Temperature Range	+ 5 °C … + 45 °C (Distance to heatsink > 50 mm)
Dimension W x H x D	77 mm x 230 mm x 163 mm
Weight	2400 g
Mounting Plate W x H	77 mm * 274 mm
Mounting Support	4 x M5
Service Flap	Access to 2x internal USB 2.0 connector (Dongle / USB stick)

Documentation

Hompage	Link
SDK Documentation	Link
Hardware Manual	Link

Dimensional Drawing

GigE sample configuration

Camera Link sample configuration

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The smartest embedded vision components

For more than 30 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 distunguish our products today.

And we are proud of them.