IMAGO
TECHNOLOGIES

* Product may vary slightly from image

Vision Box AGE-X6

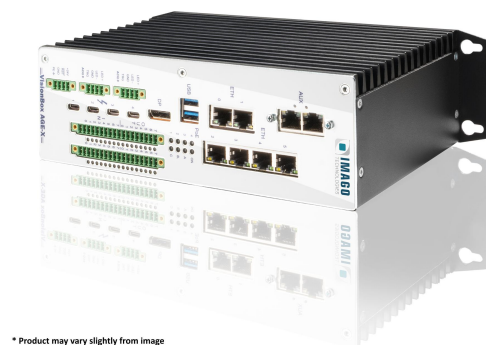## SCALABLE AI IMAGE PROCESSING

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Vision Box AGE-X6

The Vision Box AGE-X6 is a compact, fanless industrial PC powered by 14th Gen Intel® Core™ Embedded CPUs (Pentium to i9) and equipped with four USB4 interfaces. These high-speed USB4 ports enable flexible integration of external devices such as GPUs, delivering scalable performance for demanding image processing and AI-based tasks. With its integrated Real Time Communication Controller (RTCC), the system supports precise real-time control, while the open architecture (Windows/Linux) allows seamless integration of custom software environments. The AGE-X6 is the ideal platform for applications with evolving processing demands.

Key Features

- 4 x USB4 40 Gbit per Port
- 6 x 2.5GigE Interfaces
- 6 Performance-cores and 8 Efficient-cores
- 8/8 or 16/16 Digital In/Out with opto-isolators
- 2 Camera trigger
- 2 LED strobe channels
- Windows / Linux

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Processor / Storage

Type	i5-14500T	i5-14500T	i7-14700T	i7-14700
Processor Clock	6 x 1.7 GHz + 8 x 1.2 GHz	6 x 1.7 GHz + 8 x 1.2 GHz	8 x 1.3 GHz + 12 x 0.9 GHz	8 x 2.1 GHz + 12 x 1.5 GHz
Turbo	up to 6 x 4.8 GHz + 8 x 3.4 GHz	up to 6 x 4.8 GHz + 8 x 3.4 GHz	up to 8 x 5.2 GHz + 12 x 3.7 GHz	up to 8 x 5.4 GHz + 12 x 4.2 GHz
DDR RAM	2 x 8 GB DDR5 RAM	2 x 16 GB DDR5 RAM	2 x 16 GB DDR5 RAM	2 x 16 GB DDR5 RAM
Mass Storage	1 x SSD 256 GB	1 x SSD 256 GB	1 x SSD 256 GB	1 x SSD 256 GB

Interfaces

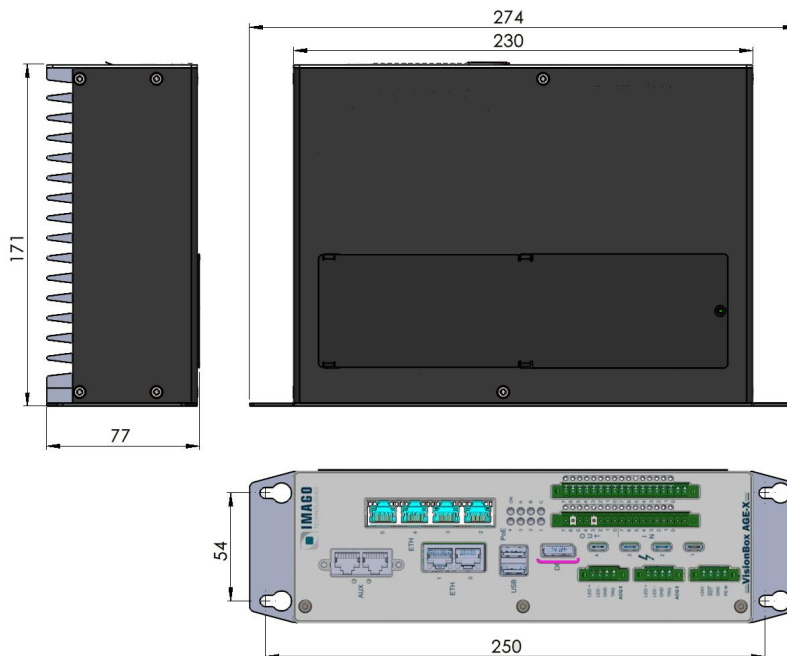|		
Ethernet	6 x 2.5 Gbit/s	6 x 2.5 Gbit/s
Digital I/O	16 x Input / 16 x Output, isolated, 24V	8 x Input / 8 x Output, isolated, 24V
Display Interfaces	1 x Display Port 2 x USB-C (alternative display)	1 x Display Port 2 x USB-C (alternative display)
USB	2 x USB 3.2 Gen 2 for peripherals 4 x USB4 Type C with 40 GBit per port	2 x USB 3.2 Gen 2 for peripherals 4 x USB4 Type C with 40 GBit per port
Camera Interface	6 x 2.5GigE Vision 2 x Camera Trigger	6 x 2.5GigE Vision 2 x Camera Trigger
LED Controller	2 x Current Controlled, 0.5 A Continuous, 6 A Peak	2 x Current Controlled, 0.5 A Continuous, 6 A Peak

Mechanical / Electrical

Power Consumption	~88 W	~112 W	~145 W
Power Supply	21.6 VDC - 26.4 VDC	21.6 VDC - 26.4 VDC	21.6 VDC - 26.4 VDC
Power Supply Current Rating (peak current)	~7,9 A	~12,2 A	~14,8 A
Certification	IP40, CE	IP40, CE	IP40, CE
Temperature Range	+ 5 °C … + 45 °C (Distance to heatsink > 50 mm)	+ 5 °C … + 45 °C (Distance to heatsink > 50 mm)	+ 5 °C … + 45 °C (Distance to heatsink > 50 mm)
Dimension W x H x D	77 mm x 230 mm x 171 mm	77 mm x 230 mm x 171 mm	77 mm x 230 mm x 171 mm
Weight	2660 g	2660 g	2660 g
Mounting Plate W x H	77 mm * 274 mm	77 mm * 274 mm	77 mm * 274 mm
Mounting Support	4 x M5	4 x M5	4 x M5
Service Flap	Access to: 2x internal USB 2.0 connector (Dongle / USB stick) 1 x m.2 2280 M (SSD) 1 x M.2 2230 M (SSD) empty socket	Access to: 2x internal USB 2.0 connector (Dongle / USB stick) 1 x m.2 2280 M (SSD) 1 x M.2 2230 M (SSD) empty socket	Access to: 2x internal USB 2.0 connector (Dongle / USB stick) 1 x m.2 2280 M (SSD) 1 x M.2 2230 M (SSD) empty socket

Documentation

SDK Documentation	Link

Dimensional Drawing

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.