

Embedded Industrial Vision & Automation Computer

The VisionBox AGE-X SERIAL+ was invented for those customers who want to purchase an individually configured and 100% tested vision & automation computer. Therefore, IMAGO offers the SERIAL+ USB LED configuration composed by IMAGO's Real-Time Controller (RTCC) peripherals for up to 12 USB3 cameras & 8 LED light heads. IMAGO provides the outbound test and organizes the long-term delivery of the series product. As an option, we provide timing reports, which show the behavior of e.g. camera trigger, LED control and I/O.



Key Features

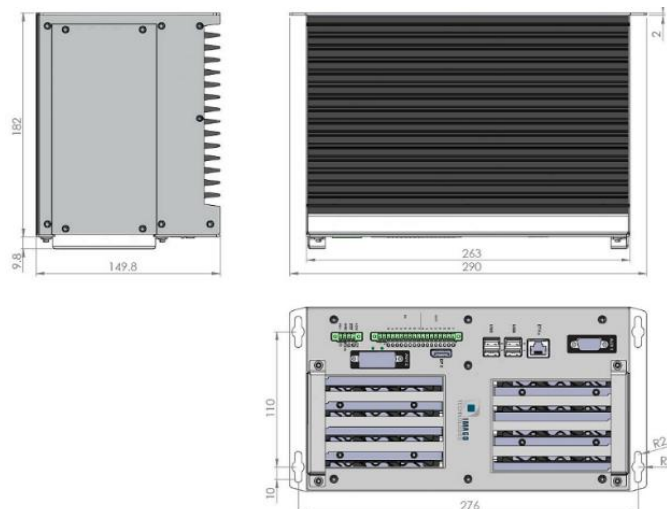


- LED Controllers with Camera Triggers
- Digital In/Out with opto-isolators
- Optional RS-422 for encoders
- USB 3.0 interface boards for cameras
- Computing power from i5 to i7
- Windows 10 IoT Ent. / Windows Embedded 7
- Embedded system / heat sink design
- Long-term availability

Interfaces of example configuration for 12 USB3 cameras (Other configurations on demand)

Ethernet	3 × 1.000 Mbit/s			
Real-Time Communication Controller	1 × with status display			
Digital I/O	8 × Input / 8 × Output, opto-isolated, 24V			
Camera Trigger	8 channels			
LED Controller ($\frac{1}{2}$ A _{continuous} / 6 A _{Peak})	8 × current-controlled			
Encoder Interface RS-422	[Option: up to 8 × Input, up to 6 × Output]			
Real-Time Fieldbus	[Option: Hilscher CIFS 90E-xx\ET\F]			
MiniPCIe Slot / AUX Port	[Option: 1 / 2]			
PCIe Slots	1 × x8	2 × x4	4 × x1	1 × bracket
Installed PCIe Boards	3 boards with totally 12 × FL 1100 USB3	RTCC & 3 × LED	LED	
Additional Certified 3 rd -Party PCIe Boards	[Option, only if other boards removed]			

Dimensions

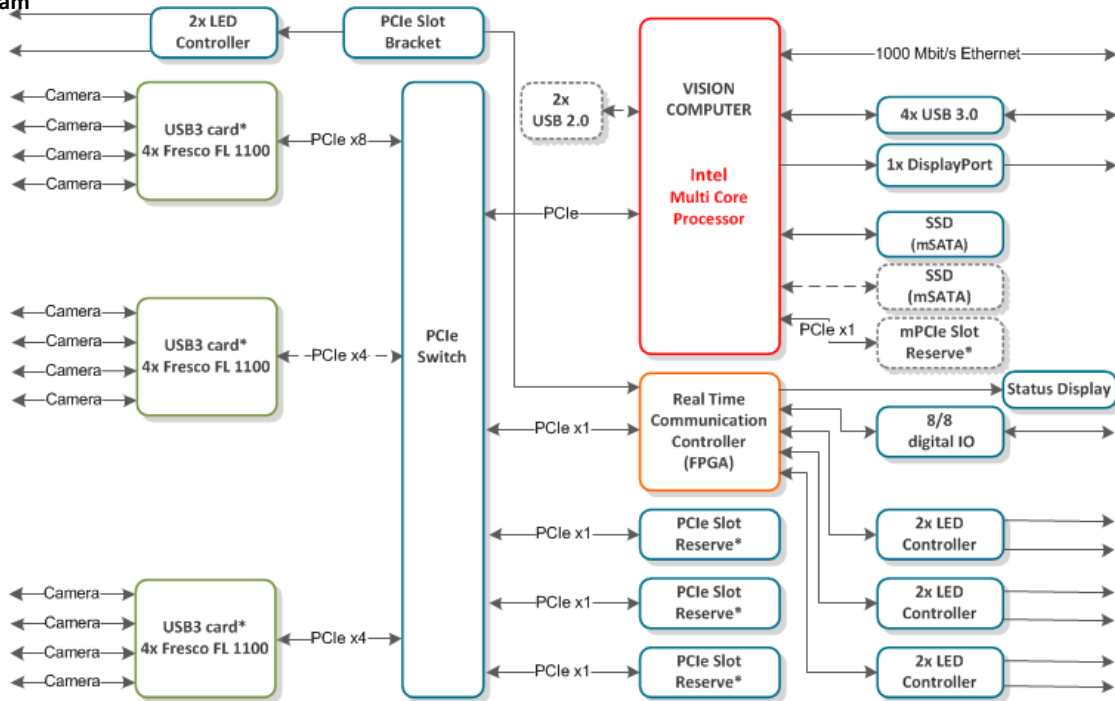


Processors	Intel i5	Intel i7
Other types on demand	6440EQ	6820EQ
Frequency (turbo Mode)	2.7 GHz (3.4 GHz)	2.8 GHz (3.5 GHz)
Cores / Threads	4 / 4	4 / 8
DDR4 RAM	2 × (4 – 16) GB	2 × (4 – 16) GB
Intel Smart Cache	6 MB	8 MB
Intel 64 / Hyper-Threading	yes / no	yes / yes
Mass Storage	1 - 2 × SSD	1 - 2 × SSD
USB 3.0 controller	13	13
USB 3.0 ports / 2.0 ports	16 / -	16 / -
DisplayPort 1.1, 60 Hz	2560 × 1600	2560 × 1600

Mechanical/Electrical

Power Supply	18 V _{DC} – 30 V _{DC}
Power Consumption	Up to 75 W, depending on camera and illumination configuration
Thermal Solution	Heat sink
Temperature Range	Depending on camera and illumination configuration
Weight	from approx. 4500 g
Dimensions	263 mm × 192 mm × 150 mm (W × D × H) 290 mm × 192 mm × 150 mm (W × D × H, on mounting plate)
Mounting Support	4 × M5

Block Diagram



* Certified 3rd party board

Ask for your individual configuration and MOQ.