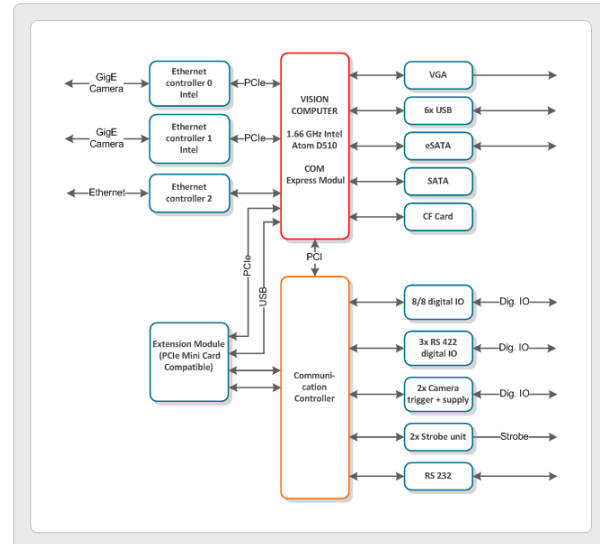


## Product name: VisionBox AGE-X Type 2

### Embedded Industrial Machine Vision PC with PCI-Express Extension

#### Product photo and block diagram:



#### Product description:

The VisionBox AGE-X provides all necessary functions to setup a PC based machine vision system. The fanless and sturdy box supports GigE vision and a fast (1.000 Mbit/s) Ethernet connection together with practical functions like integrated LED lighting control, digital IO and incremental encoder input. Powered by 24VDC the box can be mounted into a machine - analogical to a PLC. No mechanical storage device is used, data and the Windows 7 embedded OS are stored on a Compact Flash Card. Nevertheless the user can store huge amount of images with the connection of an external SATA hard drive.

IMAGO offers the embedded box together with peripherals like lighting, optics, cameras and machine integration. Due to the long experience of IMAGO in the area of embedded machine vision computer and intelligent cameras the IMAGO engineers understand all details of a machine vision application, the data flow, the integration of cameras and the real time requirements.

#### Key features:

- Computing power of Intel ATOM processor
- OS MS Windows 7 embedded
- Support for PCI-Express extension cards
- 3x GigE Interface (1x network, 2x camera)
- 2x camera power supply and trigger
- 8 / 8 digital In/Out interfaces
- Incremental encoder interface (RS422)
- 6x USB 2.0 interfaces
- 2x LED strobe controller
- External SATA interface for hard disk drive

### Technical data:

	Description	Value
General	Processor manufacturer, type	Intel Atom D510
	Processor frequency	1.66 GHz
	Processor core	2 cores / 4 threads
	DDR2-RAM	2 GByte
	Hyper-Threading Technology / 1 MB L2 cache	yes
	Integrated Compact Flash Card	≥8 GByte

Interfaces	Ethernet Interfaces	3x 1000 MBit/s
	USB 2.0	6
	Digital inputs / outputs, optodecoupled, 24 V	8 In / 8 Out
	RS422 interface (e.g. encoder support)	3 In / 3 Out
	RS232 Serial interface max. 115 kBaud	yes
	LED current output	2 channels / 2A per channel
	eSATA Interface	yes
	VGA Monitor support (up to 2048 x 1536 @ 60 Hz)	yes
	Support for Camera trigger and camera power supply	2
	optimized for Camera Interface	GigE Vision

Ext. cards	PCIe Extension slot	2
	PCIe connector type	x4
	PCIe power consumption	max 20W (slots together)
	PCIe card dimension (standard height, half length)	14.47 x 111.15 x 167.65 mm

Mech-EI	Power supply	18-30 VDC
	Power consumption (Typically)	20 W
	Thermal solution	heat sink
	Temperature range	+5...+45 °C
	Weight	2700 g
	Dimension (W x D x H)	228 x 199 x 108 mm
	Mounting support (Keyhole)	4x M5

### Type Overview:

The table shows a summary of the different VisionBox AGE-X types. Please also ask for special OEM configurations.

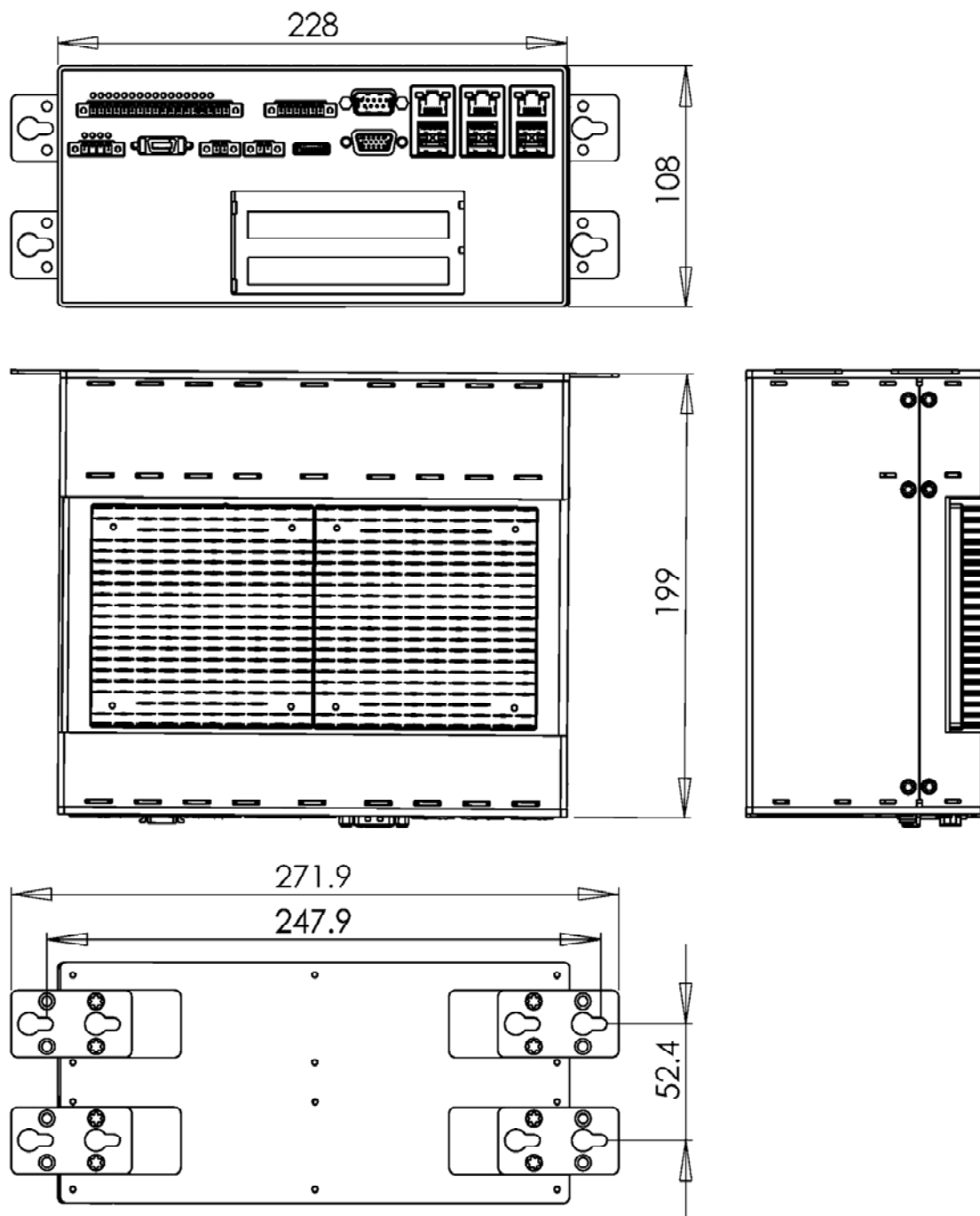
	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
<b>Processor (Intel)</b>	Atom D510	Atom D510	Core i7-620 UE	Core i7-620 UE	Core i7-620 LE	Core i7-620 LE
<b>Frequency</b>	1.66 GHz	1.66 GHz	1.06 GHz	1.06 GHz	2.00 GHz	2.00 GHz
<b>cores / threads</b>	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
<b>RAM</b>	2 GByte DDR2	2 GByte DDR2	2 GByte DDR3	2 GByte DDR3	2 GByte DDR3	2 GByte DDR3
<b>PCI-Express Extension</b>	no	yes	no	yes	no	yes
<b>Thermal solution</b>	heat sink	heat sink	fan and heat sink	fan and heat sink	fan and heat sink	fan and heat sink

### Optional Features:

For optional features refer to the different VisionBox AGE-X types. The list shows some options which are not included in the basic system, they can be ordered for OEM systems:

- Different processors (CPUs) are available - (by changing the COM-Express module)
- Internal extension connector for PCIe Mini Card e.g. WLAN
- Internal SATA connector for 1,8" HDD / SSD
- Supports up to 4GB DDR2-RAM

## Dimensions [mm]:



Technical changes reserved.