

Multicamera systems

vicosys®

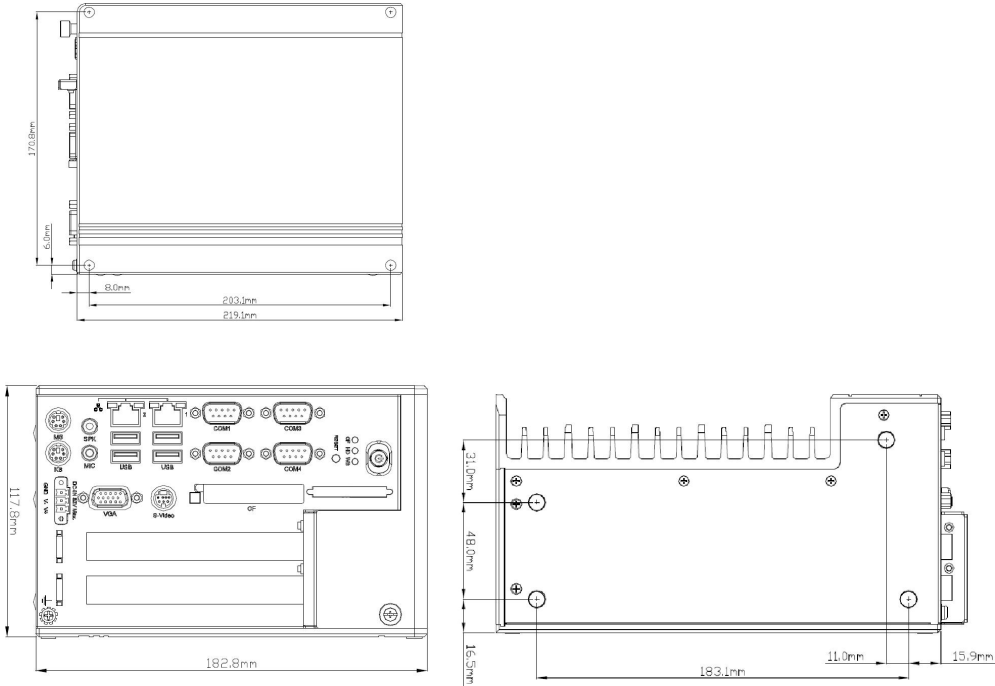
vicosys®4300

Product features

- Rapid image processing with Intel® Atom™ chip at 1,6 GHz
- Flexible camera interfaces
- 16 digital inputs and 16 digital outputs
- Compact, robust and fanless construction
- Top-hat or wall mounting
- High-Speed communication via Gigabit Ethernet
- Rapid parallel image acquisition via separate FireWire buses
- Operating philosophy of the pictor® series and flexibility of an embedded solution
- Communication is extendable
- Full 12 image memory pages also with 16Mpix b/w
- Efficient Machine Vision commands



Engineering drawing



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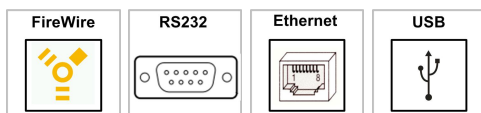
Definition

The vicosys®4300 works with a wide range of FireWire cameras (IEEE 1394a/b).

The daisy chain feature of some cameras is supported.

Optionally an external compact flash card can be used for saving/storing pictures (not included in delivery)

Variants



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vicosys@4300

Technical data

Model	vicosys 4300 FireWire 4-21-112
Processor	Intel® Atom™ 1,6 GHz
Operating system	Linux
Memory	2 GB DDR2 RAM 4 GB Compact Flash
Operating and data interfaces	1 x Ethernet 10/100/1000 Mbit, process communication 1 x Ethernet 10/100/1000 Mbit, direct connection , maintenance 4 x USB 2.0 1 x RS232 Data transfer 1 x RS232 Keypad
Process coupling	16 digital IN and 16 digital OUT 24 VDC optically decoupled
Camera interfaces	4 x IEEEb (FireWire B)
Video output	VGA 640x480, 800x600, 1024x768, 1280x1024
Operating voltage	9...32V
Power consumption	Unit itself: max. 60W FireWire bus: max.:16W with 4 cameras
Operating temperature	0...45°C
Dimensions	118 mm (W) x 219 mm (D) x 183 mm (H)
Weight	app. 3,0kg

Variants

Variants	vicosys@4300 4 x IEEE 1394b
Order number	4-21-112

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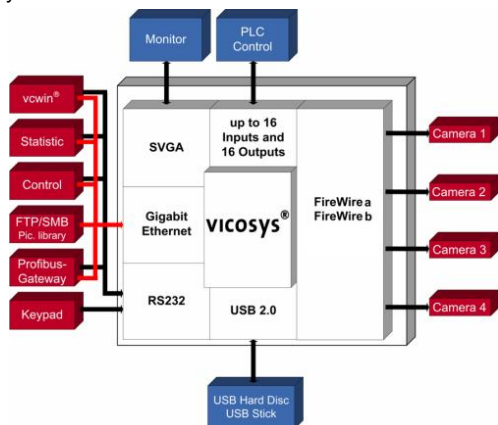
Notes

Accessories

Order no.	Name	Description
4-20-206	Key-Pad for vision systems	to control monitor menu of vicosys, incl. cable
4-40-226	Ethernet cross-module	accessory equipment for pictor M1xxx, Mxx/E
4-40-266	I/O-cable with 2x Sub-D	connection for digital Inputs and Outputs
4-40-267	I/O-cable with 1x Sub-D	connection for digital Inputs and Outputs
4-40-268	transfer block Sub-D	transfer of I/O-signals to a terminal block
4-40-269	WAGO transfer device	transfer of I/O-signals to a terminal block
3-90-025	PKM-PLC8	Process modul IO 8 IN/ 8 OUT dig. IO for pictor and vicosys via RS232 or Ethernet
3-90-026	PKM-PB	Process modul Profibus DP for pictor and vicosys via RS232 or Ethernet
3-90-027	PKM-PB/v	Process modul Profibus DP vicosys only, via RS232

Technical diagram

vicosys interfaces



Interface sight



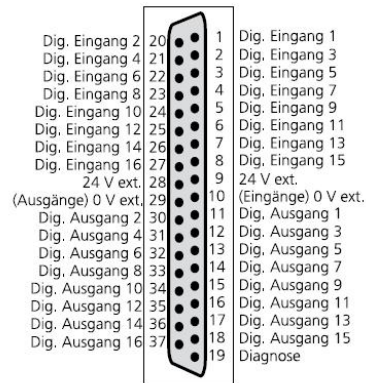
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Technical diagram

I/O plug arrangement



Pin	Wire Colour	Description	Pin	Wire Colour	Description
9	white/grey	24V	10	white/pink	0V
28	grey/brown	24V	29	pink/brown	0V
1	white	In 1	11	white/blue	Out 1
20	brown	In 2	30	brown/blue	Out 2
2	green	In 3	12	white/red	Out 3
21	yellow	In 4	31	brown/red	Out 4
3	grey	In 5	13	white/black	Out 5
22	pink	In 6	32	brown/black	Out 6
4	blue	In 7	14	grey/green	Out 7
23	red	In 8	33	yellow/grey	Out 8
5	black	In 9	15	pink/green	Out 9
24	violet	In 10	34	yellow/pink	Out 10
6	pink/grey	In 11	16	green/blue	Out 11
25	blue/red	In 12	35	yellow/blue	Out 12
7	white/green	In 13	17	green/red	Out 13
26	brown/green	In 14	36	yellow/red	Out 14
8	white/yellow	In 15	18	green/black	Out 15
27	yellow/brown	In 16	37	yellow/black	Out 16