

## Fanless

# OT1200

OT1200 is the embedded fanless panel PC based on Intel® with 915 GME chipset, 900 GMA video controller and Celeron M ULV processor up to 1GHz. Available in a wide range of LCD displays from 8.4" to 19", also touchscreen, with aluminium or stainless steel front panels.

The expandability is provided by a PCI slot, where ASEM NETCore® X communication cards can be installed. The integration with Premium HMI 3 software platform and CoDeSys SoftPLC allows the creation of visualization and control applications.



Photo 1: True-Flat stainless steel front

Photo 2: Communication ports and UPS

Photo 3: Version with reduced depth (OT1200-SL)

### FEATURES PLUS

- 1 PCI/PC104PLUS SLOT FOR ADDITIONAL CARDS
- OPTIONAL TRUEFLAT FRONT PANEL IN STAINLESS STEEL
- OPTIONAL REDUCED DEPTH REAR MECHANIC (OT1200-SL)
- OPTIONAL UPS
- 4 OPTIONAL PROGRAMMABLE KEYS
- DATA STORAGE ON SSD/CF/HDD

HMI1200  
OT1200+Premium HMI  
See p.13

System characteristics		8,4"	10,4"	12,1"	12,1"	15"	17"	19"
<b>Display</b>	Size	8,4"	10,4"	12,1"	12,1"	15"	17"	19"
	Type	Color LCD TFT	Color LCD TFT	Color LCD TFT	Color LCD TFT	Color LCD TFT	Color LCD TFT	Color LCD TFT
	Resolution	800 x 600 (SVGA)	800 x 600 (SVGA)	800 x 600 (SVGA)	1024 x 768 (XGA)	1024 x 768 (XGA)	1280 x 1024 (SXGA)	1280 x 1024 (SXGA)
	Colors	256K	256K	256K	256K	16M	16M	16M
	Pixel pitch	0,213 x 0,213mm	0,264 x 0,264mm	0,307 x 0,307mm	0,240 x 0,240mm	0,297 x 0,297mm	0,264 x 0,264mm	0,294 x 0,294mm
	Backlight	CCFL 2 lamps	CCFL 2 lamps	CCFL 2 lamps	CCFL 2 lamps	CCFL 4 lamps	CCFL 2 lamps	CCFL 2 lamps
	Luminance	400cd/m2	400cd/m2	400cd/m2	400cd/m2	450cd/m2	300cd/m2	300cd/m2
<b>Touchscreen</b>	Optional	5 wires - analog - resistive						
	Technology	80% ±2%						
	Light transmission	35mln activations						
	Lifetime	< 1 %						
<b>Motherboard</b>	Model	All-in-one, ASEM MB951						
	HW monitor	Voltages and temperatures monitor						
	Watch-dog	Time programmable						
<b>CPU</b>	Processor	Intel® Celeron M 600MHz			Intel® Celeron M 1GHz (373)			
	FSB	400MHz			400MHz			
	Cache	512KB L2			512KB L2			
	Socket	Socket 478 uFC-BGA			Socket 478 uFC-BGA			
	Chipset	Intel® 915GME + ICH6M			Intel® 915GME + ICH6M			
<b>Graphic</b>	Controller	GMA900 integrated in Intel® 915GME						
	Memory	Shared - 64MB±128MB system selectable						
<b>System memory</b>	Type	DDR2 PC5300						
	Size	512 MB, 1 GB, 2 GB						
<b>Video interfaces</b>	Socket	1 x SODIMM module						
	Type	1 x VGA (DB15F)						
<b>Serial interfaces</b>	Type	1 x RS232 (DB9M)						
	UART	16550 compatible (FIFO 16 byte)						
	Transfer rate	115Kbps max						
	Optoisolation	No						
<b>Parallel interfaces</b>	Optional (note 1)	1 x RS-232/422/485 (DB15M)						
	Type	16550 compatible (FIFO 16 byte)						
<b>PS/2 interfaces</b>	Transfer rate	115Kbps max						
	Optoisolation	No / Yes						
<b>USB interfaces</b>	Type	1 x SPP, EPP, ECP bidirectional						
	Optional (note 3)	DB25M						
<b>PS/2 interfaces</b>	Type	1 x PS/2 Keyboard / Mouse						
	Controller	2 x 10/100Mbps (RJ45)						
<b>Ethernet interfaces</b>	Type	Intel 82551QM - Intel 82562EZ						
	Controller	4 x USB 2.0 (rear, TYPE-A, host port, protected), 1 x USB 2.0 (front, TYPE-A, host port, protected), 1 x USB 2.0 (internal, pin strip, host port, protected)						
<b>USB interfaces</b>	Type	Up to 480Mbit/s (high speed)						
	Transfer rate	1 x Type I (internal access), 1 x Type II (external access)						
<b>Compact Flash slots</b>	Type	1 x SATA 1 1,5Gb/s						
	Serial	1 x ATA/100 Master/Slave (dedicated for CF Slots)						
<b>Mass storage interfaces</b>	Parallel	1 x PC/104 Plus or 1 x PCI half size						
	Type	1 x PC/104 Plus or 1 x PCI half size						
<b>Expansion slots</b>	Type	½AA Lithium (3.6V)						
	Battery	Yes						
<b>Buttons, leds and keys</b>	Reset button	Yes						
	LEDs	Front: Power / Rear: power, HDD, system fail, watch-dog						
	Function keys	4 programmable on front panel (optional), only for aluminum version excluded 19"						
<b>Electrical characteristics</b>								
<b>Power supply</b>	Type	AT, integrated on board, auto ranging						
	Input voltage	18-36 VDC						
	Power consumption	39W @ OT1200 15" Celeron M 600MHz, T/S, 512MB RAM, CF 512MB, No add-on						
	UPS	Optional						
<b>Mechanical characteristics</b>								
<b>Case</b>	Type	Panel mount						
	Material	Steel, nickel treatment						
<b>Front panel</b>	Protection	IP65				IP66K		
	Construction	Aluminum alloy with polycarbonate foil				Stainless Steel True Flat with polyester foil - RAL 7035		
	Color	PANTONE 429C						
<b>Measurements</b>	mm (note 3)	Aluminum (W x H x D)		Stainless Steel (W x H x D)		Cutout (W x H)		Weight (Kg)
		8,4"	250 x 210 x 103	-	230 x 190	3,1		
		10,4"	300 x 245 x 103	-	280 x 225	4,0		
		12,1"	335 x 270 x 103	335 x 270 x 103	315 x 250	4,6		
		15"	390 x 315 x 103	398 x 315 x 103	370 x 295	5,3		
		17"	455 x 355 x 103	455 x 355 x 103	435 x 335	6,7		
		19"	490 x 388 x 113	490 x 388 x 113	470 x 368	7,3		
<b>Environmental characteristics</b>								
<b>Temperature</b>	Operation	0° ± +50°C without HDD, 0° ± +45°C with 17", 0° ± +45°C with HDD						
	Storage	-20° ± +60°C						
<b>Humidity</b>	Operation/Storage	80% (non-condensing)						
	<b>Warranty &amp; Approvals</b>							
<b>CE</b>	Emission	Conforms to EN 55022 Information technology equipment - Radio disturbance characteristics						
	Immunity	Conforms to EN 61000-3-2 - Limits for harmonic current emissions						
	Safety	Conforms to EN 61000-3-3 - Limits of voltage fluctuation and flicker						
<b>UL</b>	Marks	Conforms to EN 55024 Information technology equipment - Immunity characteristics						
	Safety	Conforms to EN 60950-1 - Information technology equipment - Safety						
	Certificate N°	UL US 2090306-E315863						
<b>Warranty</b>	Management	By ASEM headquarters						
	Standard	12 months						
<b>Notes</b>	Extended	18 / 24 / 36 months (optional)						
	<b>Notes</b>							
1	RS-232/422/485 standard and optoisolated can be installed one alternative to the other							
2	With stainless steel front panel, touchscreen is mandatory and have no USB port on the front							
3	SL (SLIM) version is 86.5mm depth - parallel interface not available							