HT3400-TF
fanless

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Industrial Automation - Products & Configurations

HT3400-TF/S0 BASIC SYSTEM		POWER [W]
Basic Configuration	LCD TFT 12,1" SVGA ▪ Touch-Screen ▪ Aluminum TrueFlat front panel ▪ Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ fanless ▪ 24V DC isolated power supply ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 months warranty	69

HT3400-TF/S1 BASIC SYSTEM		POWER [W]
Basic Configuration	LCD TFT 12,1" SVGA ▪ Touch-Screen ▪ Aluminum TrueFlat front panel ▪ Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ fanless ▪ 24V DC isolated power supply ▪ 1 PCI slot ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 months warranty	75

	S0	S1		
REMOTE ASSISTANCE	●	●	ASEM UBIQUITY BASIC Win32/64 runtime	-
PROCESSOR	●	●	Intel® Celeron® G3900E ▪ 2,40 GHz, 2MB L2 cache ▪ 2 cores, 2 threads ▪ Soldered on-board	
	●	●	Intel™ Core™ i3-6100E ▪ 2,70 GHz ▪ 3MB smart cache ▪ 2 cores, 4 threads ▪ Soldered on-board	+ 0
	●	●	Intel™ Core™ i5-6440EQ ▪ 2,70 GHz (3.40 GHz Turbo) ▪ 6MB smart cache ▪ 4 cores, 4 threads ▪ Soldered on-board	+ 0
	●	●	Intel™ Core™ i7-6820EQ ▪ 2,80 GHz (3,50 GHz Turbo) ▪ 8MB smart cache ▪ 4 cores, 8 threads ▪ Soldered on-board	+ 13
DISPLAY & TOUCH-SCREEN	●	●	12,1" LCD TFT 4:3 ▪ SVGA, 800x600, 16M colors ▪ LED backlight, 450 cd/m2 ▪ Viewing angle L:R/U:L (typ.): 80°:80°/65°:75° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	
	●	●	12,1" LCD TFT 4:3 ▪ XGA, 1024x768, 16M colors ▪ LED backlight, 600 cd/m2 ▪ Viewing angle L:R/U:L (typ): 80°:80°/70°:70° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 8
	●	●	12,1" W LCD TFT 16:10 ▪ WXGA, 1280x800, 16M colors ▪ LED backlight, 400 cd/m2 ▪ Viewing angle L:R/U:L (typ) 88°:88°/88°:88° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 5
	●	●	15" LCD TFT 4:3 ▪ XGA, 1024x768, 16M colors ▪ LED backlight, 500 cd/m2 ▪ Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 11
	●	●	15,6" W LCD TFT 16:9 ▪ 1366x768 (HD), 16M colors ▪ LED backlight, 400 cd/m2 ▪ Viewing angle L:R/U:L (typ): 80°:80°/80°:80° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 5
	●	●	15,6" W LCD TFT 16:9 ▪ 1920x1080 (FHD), 16M colors ▪ LED backlight, 400 cd/m2 ▪ Viewing angle L:R/U:L (typ): 85°:85°/85°:85° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 15
	●	●	17" LCD TFT 5:4 ▪ SXGA, 1280x1024, 16M colors ▪ LED backlight, 350 cd/m2 ▪ Viewing angle L:R/U:L (typ): 85°:85°/80°:80° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 20
	●	●	18,5" W LCD TFT 16:9 ▪ 1366x768 (HD), 16M colors ▪ LED backlight, 300 cd/m2 ▪ Viewing angle L:R/U:L (typ): 75°:75°/70°:70° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 16
	●	●	18,5" W LCD TFT 16:9 ▪ 1920x1080 (FHD), 16M colors ▪ LED backlight, 400 cd/m2 ▪ Viewing angle L:R/U:L (typ): 85°:85°/70°:70° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 27
	●	●	19" LCD TFT 5:4 ▪ SXGA 1280x1024, 16M colors ▪ LED backlight, 350 cd/m2 ▪ Viewing angle L:R/U:L (typ): 85°:85°/85°:85° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 28
	●	●	21,5" W LCD TFT 16:9 ▪ 1920x1080 (FHD), 16M colors ▪ LED backlight, 300 cd/m2 ▪ Viewing angle L+R/U+L (typ): 89°:89°/89°:89° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 26
	●	●	24" W LCD TFT 16:9 ▪ 1920x1080 (FHD), 16M colors ▪ LED backlight, 300 cd/m2 ▪ Viewing angle L:R/U:L (typ): 89°:89°/89°:89° Touch-Screen ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 30
RAM MEMORY	●	●	4 GB ▪ 1 module SODIMM DDR4-2133	
	●	●	8 GB ▪ 2 x 4 GB modules SODIMM DDR4-2133	+ 1
	●	●	16 GB ▪ 2 x 8 GB modules SODIMM DDR4-2133	+ 3
	●	●	32 GB ▪ 2 x 16 GB modules SODIMM DDR4-2133	+ 4
INTERNAL PSU	●	●	Without UPS (uninterruptible power supply)	
	●	●	With UPS (uninterruptible power supply) ▪ integrated in power supply section ▪ batteries kit not included **> note 1**	+ 1
EXPANSION SLOTS	●		No expansion slots	
		●	1 x PCI half size ▪ on riser card ▪ expansion board with max consumption 5W	
		●	1 x PCIe 4x format (Generation 3) half size ▪ on riser card ▪ expansion board with max consumption 5W	+ 0

OPTIONS				POWER [W]
	S0	S1		
TPM	●	●	TPM (Trusted Platform Module)	0
SSD mSATA	●	●	SSD mSATA onboard connector, SATA MLC	2
SSD/HDD 2,5"	●	●	2,5" SSD/HDD SATA installation kit (SSD/HDD not included) ▪ with shock absorber	-
	●	●	SSD 2,5", SATA	5
	●	●	HDD 2,5" SATA 24x7	6
CFAST	●	●	CFast SATA	1
COMMUNICATION PORTS	●	●	1 x RS232/422/485 serial port (DB15M) ▪ 1 x USB 2.0 port **> note 2**	1
	●	●	1 x RS232/422/485 isolated serial port (DB15M) ▪ 1 x USB 2.0 port **> note 2**	1
	●	●	2 x RS232 serial ports (DB9M) **> note 2**	2
	●	●	2 x USB 2.0 ports **> note 2**	0
	●	●	1 x Ethernet 10/100/1000Mpbs, Intel® I210 **> note 3**	1
FIELDBUS	●	●	1 x NETcore X card with "26pin" connector **> note 3**	3
	●	●	1 x NETcore X card with "60pin-H" connector **> note 2**	3
WIRELESS MODULES	●	●	WiFi module, IEEE 802.11a/b/g/n, 2,4GHz - 5 GHz ▪ Modem 3G/4G-LTE **> note 3**	7
REMOTE VIDEO LINK	●	●	1 x additional video output RVL - Remote Video Link ▪ Remotation up to 100m of DVI-D and USB 2.0 signals ▪ without cables **> note 3**	3
	●	●	2 x additional video output RVL - Remote Video Link ▪ Remotation up to 100m of DVI-D and USB 2.0 signals ▪ without cables **> note 3**	3
POWER SUPPLY	●	●	Kit for ATX mode power supply functionality including on board button, internal cable and connector for remote command.	0
UPS BATTERY KIT	●	●	Batteries kit for rear systems mounting ▪ cable included	15
	●	●	Batteries kit for detached mounting (wall mount) ▪ 100cm cable included	15
WARRANTY EXTENSION	●	●	Warranty extension to 18 month	
	●	●	Warranty extension to 24 months	
	●	●	Warranty extension to 36 months	

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports.

1: UPS functionalities are ensured with Microsoft Win32/64bits operating systems only

2: Communication ports signed by note 2 cannot be installed together

3: Communication ports signed by note 3 cannot be installed together. 3 video outputs can be managed only using Windows 10.
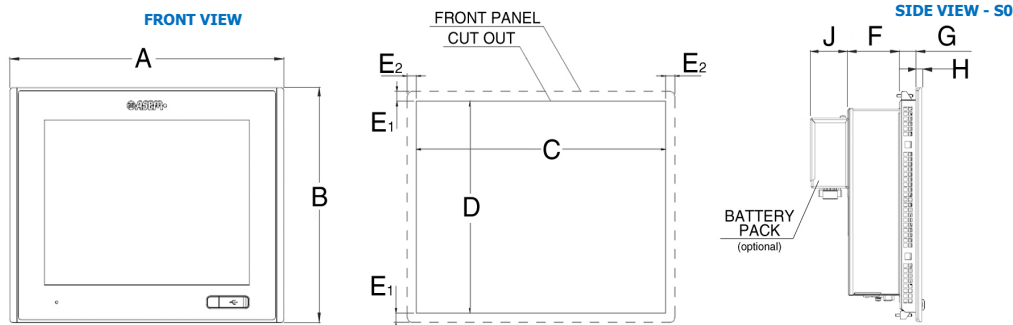
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TECHNICAL SPECIFICATIONS		
Case		Panel mount
Overall dimensions & weight		See details on the related section
Front panel		Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
Touchscreen		5 wires resistive technology • on board controller
Frontal protection		IP66
Power supply		24 V DC Isolated • Input voltage: 18÷32V DC • ATX mode push button (optional)
UPS (optional)		12V DC UPS (Uninterruptible Power Supply) battery backup system
		Batteries module (optional): Pb, 12V/13A max, 2500mA/h • Charge time 3h@25°C • Discharge time 5'@ 13A and 25°C • Lifetime 10years@25°C
Motherboard	Type	"All-In-One" ASEM 1351
	Watch dog	Time programmable
Intel platform	Processor	Intel® Celeron® dual core 35W • Intel® Core™ 6th generation 35/45W
	Chipset	Intel® HM170 PCH (Platform Controller Hub)
Operating System	O.S. certified by ASEM	Microsoft Windows 10 IoT Enterprise 2016 64bit • Microsoft Windows 8.1 Industry Pro 32/64bit • Microsoft Windows 7 Pro/Ultimate 32/64bit • Microsoft Windows Embedded Standard 7E/7P 32/64 bit • Linux Other operating systems, such as VxWorks, QNX, etc., have not been certified by ASEM but they are reasonably supported by the Intel platform after verification of compatibility
	O.S. not supported by Intel platform	Microsoft Windows XP / 2000 / 98 / Microsoft Windows CE 5 / 6 / 7
Software	Remote assistance	ASEM UBIQUITY BASIC Win32/64 runtime license with ASEM sticker
Video controller		Intel® HD Graphics 510 integrated into Intel® Celeron™ microprocessor • 950MHz Intel® HD Graphics 530 integrated into Intel® Core™ microprocessor • 950MHz / 1GHz
Video RAM (shared)		Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory		DDR4-2133 type • 2 SODIMM modules • min 4GB • max 32GB
Mass storage		1 x onboard connector for direct insertion of mSATA SSD SATA III • 1 x onboard connector for 2,5" SSD/HDD 24x7 SATA III with internal installation kit
RAID controller		Integrated into chip Intel® HM170 PCH • Raid 0, 1
TPM		2x10 (2,54) pin-strip connector for optional TPM module
CFast slot		1 x bootable CFast SATA slot on board with external front access
Expansions slots on riser card (S1)		1 x PCI or 1 x PCIe 4x • half size boards with 5W max consumption • alternative to each other
Frontal access interfaces		1 x USB 2.0
Rear access interfaces		4 x Ethernet 10/100/1000 Mbps (RJ45), 3 x Intel® I210, 1 x Intel I219LM • 3 x USB 3.0 (Type A) • 2 x USB 2.0 (Type A) • 1 x RS232 (DB9M) • 1 x DVI-D Single Link (1920x1080 FHD max resolution)
Environmental specifications		Operating temperature: 0° ÷ +50°C, 0°C ÷ +45°C with Core i7 processor or 24x7 HDD • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals		CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL61010) pending
Standard warranty		12 months • Warranty management by ASEM headquarters

DIMENSIONS (mm)

FRONT VIEW

FRONT PANEL CUT OUT

SIDE VIEW - S0

BATTERY PACK (optional)

LCD TFT	A	B	C	D	E	(S0/S1)	G	H	J	Weight (kg)
12,1"	335	270	315	250	10	70/100	19	5	41,8	tbd
12,1" W	331	234	313	216	9	70/100	21	5	41,8	tbd
15"	390	315	370	295	10	70/100	19	6	41,8	6,4
15,6"	430	275	410	255	10	70/100	19	6	41,8	tbd
17"	455	355	435	335	10	70/100	21	6	41,8	tbd
18,5" W	500	320	480	300	10	70/100	21	6	41,8	tbd
19"	490	388	470	368	10	70/100	23	6	41,8	tbd
21,5" W	579	367	559	347	10	70/100	23	6	41,8	tbd
24" W	640	402	620	382	10	70/100	21,3	8	41,8	9,9

CONNECTORS VIEW

1 x DVI-D   3 x USB3.0   2 x USB2.0   1 x RS232   POWER, DRIVE, WD, TEMP
RESET, WD-RESET

EARTH
POWER PLUG
UPS optional
POWER BUTTON with REMOTE optional
ADD-ON I/F optional

1 x LAN or 2 x RVL optional

PCI / PCIe

UPS BATTERIES optional

4 x LAN