HT3400-TFM
fanless

Industrial Automation - Products & Configurations

HT3400-TFM/S0 BASIC SYSTEM		POWER [W]
Basic Configuration	LCD TFT 12,1" W ▪ Touch-Screen Multitouch ▪ Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ Aluminum and glass TrueFlat front panel ▪ fanless ▪ 24V DC isolated power supply ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 months warranty	73

HT3400-TFM/S1 BASIC SYSTEM		POWER [W]
Basic Configuration	LCD TFT 12,1" W ▪ Touch-Screen Multitouch ▪ Intel® Celeron® dual core G3900E 2,40 GHz ▪ 4GB RAM ▪ Aluminum and glass TrueFlat front panel ▪ fanless ▪ 24V DC isolated power supply ▪ 1 PCI slot ▪ UBIQUITY BASIC Win32/64 runtime ▪ 12 months warranty	80

	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" 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° 12,1" W Touch-Screen 16:10 ▪ P-CAP projected capacitive multitouch	
	●	●	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° 15,6" W Touch-Screen 16:9 ▪ P-CAP projected capacitive multitouch	+ 1
	●	●	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° 15,6" W Touch-Screen 16:9 ▪ P-CAP projected capacitive multitouch	+ 10
	●	●	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° 18,5" W Touch-Screen ▪ P-CAP projected capacitive multitouch	+ 11
	●	●	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° 18,5" W Touch-Screen ▪ P-CAP projected capacitive multitouch	+ 23
	●	●	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° 21,5" W Touch-Screen ▪ P-CAP projected capacitive multitouch	+ 22
	●	●	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° 24" W Touch-Screen ▪ P-CAP projected capacitive multitouch	+ 26
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	+ 2
	●	●	32 GB ▪ 2 x 16 GB modules SODIMM DDR4-2133	+ 3
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	-
	●	●	2,5" SSD SATA MLC	5
	●	●	2,5" HDD 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
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
POWER SUPPLY	●	●	Kit for ATX mode power supply functionality including on board button, internal cable and connector for remote command.	0
UPS BATTERIES 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 months on basic system and its variants	
	●	●	Warranty extension to 24 months on basic system and its variants	
	●	●	Warranty extension to 36 months on basic system and its variants	

NOTES

For power consumption calculation we reccomend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.

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

2: Communication ports signed by note 3 cannot be installed together

3: The Ethernet port and the additional video output RVL cannot be installed together
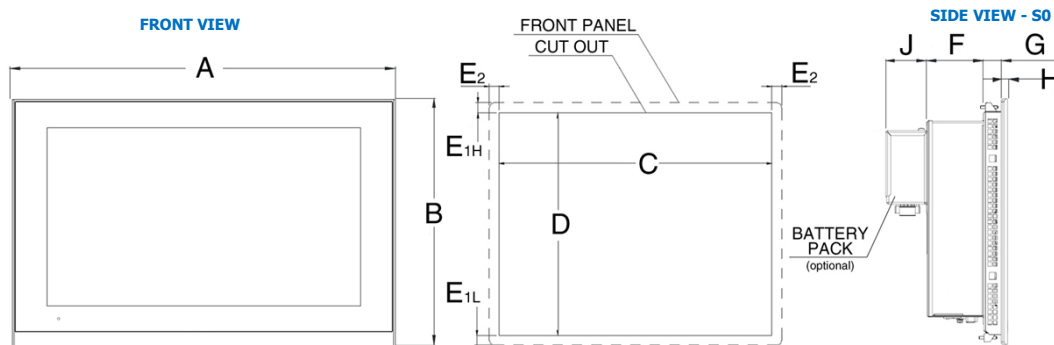
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TECHNICAL SPECIFICATIONS		
Case		Panel mount
Overall dimensions & weight		See details on the related section
Front panel		Aluminum and tempered glass TrueFlat
Touchscreen		Projective capacitive multitouch
Frontal protection		IP66
Power supply		Isolated • 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 3 • 1 x onboard connector for 2,5" SSD/HDD 24x7 SATA 3 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 3 slot on board with external front access
Bus 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
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$_{1L}$:E$_{1H}$/E$_2$	F (S0/S1)	G	H	J	Weight (kg)
12,1" W	331	234	313	218	7:9/9	70/100	22	5	41,8	tbd
15,6" W	433	280,5	410	255	15:10,5/11,5	70/100	36	6	41,8	tbd
18,5" W	503	320,5	480	300	10:10,5/11,5	70/100	35	6	41,8	tbd
21,5" W	581,5	367,5	559	347	10:10,5/11,5	70/100	35	8	41,8	tbd
24" W	640	402	620	382	10/10	70/100	21	8	41,8	tbd

CONNECTORS VIEW

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

1 x LAN or 2 x RVL optional

PCI / PCIe

UPS BATTERIES optional

4 x LAN

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