## SIEMENS

## Data sheet

## 6AV7241-3BA15-0DA0

SIMATIC IPC 477E 15" touch (1280 x 800); with front USB; 4 USB (back), Ethernet (10/100/1000); Core i3-6102E; 3x Gbit Ethernet (IE/PN); 4 GB without RS 232/RS485; 1x PCIe (x4); Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es) for Celeron, i3 and i5, Without replaceable mass storage; 256 GB Eco SSD; Without SIMATIC software; 24 V DC industrial power supply

Central information         IPC477E           Display         15° TFT touch           Screen diagonal         16.6 in           Resolution (pixels)         15° TFT touch           • Horizontal image resolution         1280 pixel           • Vertical image resolution         800 pixel           Backlighting         • Workshiphting (zt 25 °C)           • MTBF backlighting (zt 25 °C)         50 000 h           Control elements         • Mouse, at front           Input device         • Front USB 2.0 (s00mA)           • Mouse, at front         Front USB 2.0 (s00mA)           Keyboard fonts         • Function keys           • Design as bouch screen         Yes; analog, resistive           Installation type/mounting         • For horizontal and vertical mounting           Design as bouch screen         Yes           • Design as touch screen         Yes           • Stapply voltage         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC           Line frequency         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC           Line frequency         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC           Line frequency         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC           Line frequency         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC		
Display       15° TFT touch         Screen diagonal       15° IFT touch         Resolution (laxels)       1280 pixel         • Horizontal image resolution       1280 pixel         Backlighting       00 pixel         Backlighting (at 25 °C)       50 000 h         Control elements       Front USB 2.0 (500mA)         Input device       •         • Mouse, at front       Front USB 2.0 (500mA)         Keyboard fonts       •         • Loncion keys       No         • alphanumeric keyboard       No         • Design as touch screen       Yes; analog, resistive         Installation type/mounting       Por horizontal and vertical mounting         Design       Panel PC, built-in unit         Central design       Yes         distributed design       No         Mounting       Yes         Orsup voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       Yes         • Rated value 60 Hz       Yes	General information	
Design of display     16" TFT touch       Screen diagonal     15.6 in       Resolution (iskels)     1280 pixel       • Vertical image resolution     1 280 pixel       Backlighting     600 pixel       Outrof dismaps resolution     1 280 pixel       Post of the solution (gixels)     600 pixel       Input device     Front USB 2.0 (500mA)       • Mouse, at front     Front USB 2.0 (500mA)       Keybcard fonts     1       • Linction keys     No       • alphanumeric keyboard     No       • Design as touch screen     Yes; analog, resistive       Installation type/mounting     Port horizontal and vertical mounting       Design     Panel PC, builtin unit       Central design     Yes       distributed design     No       Mounting in portrait format possible     Yes       Supply voitage     100/240 V AC (autorange) 50/60 Hz; optional 24 V DC       Line frequency     Power loss       In full configuration     24 V DC: max. 65 W, PCle APCB additionally 5 W       Processor     Celeron G3002 (2/27; 14 GHz, 2.40 Gache); Core (5.402E (2/247; 19 GHz, 6.40E cache); Core (5.402E (2/247; 19 GHz, 6.40E cache); Core (5.	Product type designation	IPC477E
Screen diagonal       15.6 in         Resolution (pixels)       1280 pixel         • Horizontal image resolution       800 pixel         Backlighting       600 pixel         Backlighting       600 pixel         Backlighting       50 000 h         Control elements       1         Input device       600 pixel         • Muse, at front       Front USB 2.0 (500mA)         Keyboard fonts       7         • Function keys       No         • alphanumeric keyboard       No         • Design as touch screen       Yes; analog, resistive         Instalation type/mounting       Port horizontal and vertical mounting         Design       Panel PC, built-in unit         Central design       Yes         Mounting in portral format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       Yes         • Rated value 50 Hz       Yes         Mains buffering       20 ms         Power loss       Yes         In full configuration       24 V DC; max. 65 W, PCle APCB additionally 5 W         Processor       Celeron G3902 (2C/27, 1, 6 CHz, 2 MB Cache); Core i3-6102E (2C/47, 1, 9 (27) CHz, 6 MB Cache, iAMT)         Proc	Display	
Screen diagonal       15.6 in         Resolution (pixels)       1280 pixel         • Horizontal image resolution       800 pixel         Backlighting       600 pixel         Backlighting       600 pixel         Backlighting       50 000 h         Control elements       1         Input device       600 pixel         • Muse, at front       Front USB 2.0 (500mA)         Keyboard fonts       7         • Function keys       No         • alphanumeric keyboard       No         • Design as touch screen       Yes; analog, resistive         Instalation type/mounting       Port horizontal and vertical mounting         Design       Panel PC, built-in unit         Central design       Yes         Mounting in portral format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       Yes         • Rated value 50 Hz       Yes         Mains buffering       20 ms         Power loss       Yes         In full configuration       24 V DC; max. 65 W, PCle APCB additionally 5 W         Processor       Celeron G3902 (2C/27, 1, 6 CHz, 2 MB Cache); Core i3-6102E (2C/47, 1, 9 (27) CHz, 6 MB Cache, iAMT)         Proc	Design of display	15" TFT touch
Resolution (pixels)         • Horizontal image resolution       1 280 pixel         Backlighting       800 pixel         • MTBF backlighting (at 25 °C)       50 000 h         Control elements       Font USB 2.0 (500mA)         Input device       •         • Muse, at front       Font USB 2.0 (500mA)         Keyboard fonts       •         • Function keys       No         • alphanumeric keyboard       No         Touch operation       Yes; analog, resistive         • basign as touch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design as touch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design design       Yes         (attributed design       No         Mounting in portral format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       Yes         • Rated value 50 Hz       Yes         • Rated value 50 Hz       Yes         • Mains/voltage failure stored energy time       20 ms         Processor       Celeron G3902 (2C/27, 1, 6 GHz, 2 MB Cache); Core i3-6102E (2C/47, 1, 19 GH		15.6 in
• Vertical image resolution         800 pixel           Backlighting         •           • MTBF backlighting (at 25 °C)         50 000 h           Control elements         •           Input device         •           • Mouse, at front         Front USB 2.0 (500mA)           Keyboard fonts         •           • Function keys         No           • alphanumeric keyboard         No           • Dosign as touch screen         Yes; analog, resistive           Installation type/mounting         •           Mounting         Parel PC, built-in unit           central design         Yes           distributed design         No           Mounting in portrait format possible         Yes           Supply voltage         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC           Une frequency         Yes           • Rated value 60 Hz         Yes           • Mains Notlage failure stored energy time         20 ms           Processor         •           Processor type         Celeron G3002 (2C/2T, 1.6 CHz); Core I3-6102E (2C/4T, 1.9 G-Hz, 6 MB Cache); Core I3-6102E (2C/4T, 1.9 G-Hz, 6 MB		
Backlighting         • MTBF backlighting (at 25 °C)       50 000 h         Control elements         Input device         • Mouse, at front       Front USB 2.0 (500mA)         Keyboard fonts         • Function keys       No         • alphanumeric keyboard       No         • Design as touch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Panel PC, built-in unit         Mounting       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       -         • Rated value 50 Hz       Yes         • Rated value 50 Hz       Yes         • Rated value 50 Hz       Yes         • Mains buffering       20 ms         • Celeron CS3002 (2C/27, 1.6 GHz, 2.MB Cache), Core i3-6102E (2C/47, 1.9 (.27, 6.4 B)         Cache, iAMT); Xeon E3-150EL, 50 (4C/8T, 2.0 (2.8) GHz, 6 MB	Horizontal image resolution	1 280 pixel
MTBF backlighting (at 25 °C)     50 000 h Control elements Input device     Mouse, at front     Ford USB 2.0 (500mA) Keyboard fonts     For horizontal and vertical mounting     Design as buch screen     Yes, analog, resistive Installation type/mounting Mounting Design     Panel PC, built-in unit     central design     Yes Guident portait format possible     Yes Supply voltage     100/240 V AC (autorange) 50/60 Hz; optional 24 V DC Line frequency     Rated value 60 Hz     Yes Rated value 60 Hz     Yes Mains buffering     Mins/voltage failure stored energy time     Yes Processor Processor Processor Fore Processor Fore Processor Fore Celeron G3002 (2C/27, 1.6 GHz, 2 MB Gache); Core 13.61022 (2C/47, 1.9 GHz, 2 MB Gache); Core 13.61022 (2C/47, 2 MB Gache); Core 13.	<ul> <li>Vertical image resolution</li> </ul>	800 pixel
Control elements         Input device         • Mouse, at front         • Front USB 2.0 (500mA)         • Keyboard fonts         • Function keys         • alphanumeric keyboard         No         • Design as touch screen         Yes; analog, resistive         Installation type/mounting         Mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       Yes         • Rated value 50 Hz       Yes         • Rated value 50 Hz       Yes         Mains buffering       20 ms         • Nains/voltage failure stored energy time       20 ms         Power loss       In full configuration         1 full configuration       24 V DC: max. 65 W, PCle APCB additionally 5 W         Processor       Celeron G3902 (2C/27, 1.6 GHz, 2 MB Cache); Core i3-8102E (2C/47, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27, 1.9 (27	Backlighting	
Input device       • Mouse, at front       Front USB 2.0 (500mA)         Keyboard fonts       • Function keys       No         • alphanumeric keyboard       No         • Design as fuch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Yup of supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         Processor       Celeron G3902 (2C/27, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/47, 1.9 (2.7) GHz, 6 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz, 8 MB Cache, IAMT); Xeon E3-1505L v5 (4C/87, 2.0 (2.8) GHz,	<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
• Mouse, at front       Front USB 2.0 (500mA)         Keyboard fonts       •         • Function keys       No         • alphanumeric keyboard       No         Touch operation       •         • Design as touch screen       Yes; analog, resistive         Installation type/mounting       •         Mounting       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       •         • Rated value 60 Hz       Yes         • Nains buffering       0 ms         • Nower loss       In full configuration         In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/27, 1.6 GHz, 2.04 Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Los HI         In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/27, 1.6 GHz, 2.04 Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i3-6402E (2C/4T, 1.9 GHz, 3 MB Cache); IMTT)         Chipset       Intel C336	Control elements	
Keyboard forts       No         • Function keys       No         • alphanumeric keyboard       No         Touch operation       •         • Design as touch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Processor       Celeron G3902 (2C/271, 1.6 GHz, 2.MB Cache); Core i3-6102E (2C/471, 1.9 (2.7) GHz, 6 MB Cache); Core i5-6442EQ (4C/471, 1.9 (2.7) GHz, 6 MB Cache); LAMT); Xeon E3-1505L v5 (4C/471, 2.0 (2.8) GHz, 8 MB Cache); LAMT)         Chipset       Intel C236 / Intel H110         Graphic       Graphic         Graphic       Yes; YATA ≥ 320 GB         SSD       Yes; Yat 2 / 20 / 480 GB         Herr disk <td>Input device</td> <td></td>	Input device	
• Function keys     No       • alphanumeric keyboard     No       Touch operation     • Design as touch screen     Yes; analog, resistive       Installation type/mounting     For horizontal and vertical mounting       Design     Panel PC, built-in unit       central design     Yes       distributed design     No       Mounting in portrait format possible     Yes       Supply voltage     100/240 V AC (autorange) 50/60 Hz; optional 24 V DC       Line frequency     • Rated value 60 Hz       • Rated value 60 Hz     Yes       Mains buffering     • 20 ms       • Mains/voltage failure stored energy time     20 ms       Processor     Processor       Processor type     Celeron G3902 (2C/2T, 1.6 GHz, 2.0 MB Cache); Core I3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache); Core I3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache); Core I3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache); Core I3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache); Core I5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, IAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, IAMT)       Chipset     In tell Ca36 / Intel H110       Graphic     Graphics controller       Hard disk     2.5" SATA ≥ 320 GB       SSD     Yes; 128 / 240 / 480 GB       Memory     DDR4-2400 SO-DIMM		Front USB 2.0 (500mA)
• alphanumeric keyboard     No       Touch operation     • Design as touch screen     Yes; analog, resistive       Installation type/mounting     For horizontal and vertical mounting       Design     Panel PC, built-in unit       central design     Yes       distributed design     No       Mounting in portrait format possible     Yes       Supply voltage     100/240 V AC (autorange) 50/60 Hz; optional 24 V DC       Line frequency     • Rated value 50 Hz       • Rated value 60 Hz     Yes       • Mains/voltage failure stored energy time     20 ms       Power loss     In full configuration       Processor     Processor       Processor type     Celeron G3902 (2C/2T, 1.6 GHz, 2.0 B Cache); Core i3-6102E (2C/AT, 1.9 GHz, 2.0 B Cache); Core i5-6442EO (4C/AT, 1.9 (2.7) GHz, 6 MB Cache); LORE i5-6442EO (4C/AT, 1.9 (2.7) GHz, 6 MB Cache); LORE i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Core i5-6442EO (4C/AT, 2.0 (2.8) GHz, 8 MB Cache); Co	Keyboard fonts	
Touch operation       Ves; analog, resistive         Installation type/mounting       Mounting         Mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       • Mains/voltage failure stored energy time         Power loss       In full configuration         In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Drives       Intel HD graphics controller         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	Function keys	No
• Design as touch screen       Yes; analog, resistive         Installation type/mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Processor       Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache, iXMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iXMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iXMT)         Chipset       Intel C236 / Intel H110         Graphice       Intel C236 / Intel H110         Graphics controller       Intel HD graphics controller         Drives       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	alphanumeric keyboard	No
Installation type/mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration         Post Offson       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       19 GeHz, 3 MB Cache); Core i3-6102E (2C/4T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intell C236 / Intel H110         Graphic       Intell C236 / Intel H110         Graphics controller       Intel HD graphics controller         Drives       Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	Touch operation	
Mounting       For horizontal and vertical mounting         Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       •         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration         Processor       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2. MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i3-6102E (2C/4T, 1.9 (2.7) GHz, 6 MB Cache, IAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, IAMT)         Chipset       Intel C236 / Intel H110         Graphics       Intel HD graphics controller         Drives	<ul> <li>Design as touch screen</li> </ul>	Yes; analog, resistive
Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       •         • Mains/voltage failure stored energy time       20 ms         Power loss       •         In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       •         Processor       •         Celeron G3902 (2C/27, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/47, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T,	Installation type/mounting	
Design       Panel PC, built-in unit         central design       Yes         distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration         Processor       Celeron G3902 (2C/27, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/47, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz,	Mounting	For horizontal and vertical mounting
distributed design       No         Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       9         Rated value 50 Hz       Yes         Rated value 60 Hz       Yes         Mains buffering       20 ms         Power loss       20 ms         Power loss       24 V DC: max. 65 W, PCle APCB additionally 5 W         Processor       Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2.MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MS Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz,		
Mounting in portrait format possible       Yes         Supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz         • Rated value 60 Hz       Yes         • Rated value 60 Hz       Yes         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration         In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Drives       Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       Type of memory	central design	
Supply voltage         Type of supply voltage         100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency         • Rated value 50 Hz         • Rated value 60 Hz         Yes         Mains buffering         • Mains/voltage failure stored energy time         20 ms         Power loss         In full configuration         24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor         Processor         Processor type         Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel H2 graphics controller         Graphic       Graphics controller         Intel HD graphics controller       Intel HD graphics controller         Drives       Yes; 128 / 240 / 480 GB         Memory       Type of memory         DDR4-2400 SO-DIMM       DDR4-2400 SO-DIMM		No
Type of supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         • Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration         Processor       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Graphics controller         Intel HD graphics controller       Intel HD graphics controller         Prives       2.5" SATA ≥ 320 GB         Yes; 128 / 240 / 480 GB       Memory         Type of memory       DDR4-2400 SO-DIMM	Mounting in portrait format possible	Yes
Type of supply voltage       100/240 V AC (autorange) 50/60 Hz; optional 24 V DC         Line frequency       • Rated value 50 Hz       Yes         • Rated value 60 Hz       Yes         • Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration         Processor       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Graphics controller         Intel HD graphics controller       Intel HD graphics controller         Prives       2.5" SATA ≥ 320 GB         Yes; 128 / 240 / 480 GB       Memory         Type of memory       DDR4-2400 SO-DIMM	Supply voltage	
Line frequency       Pated value 50 Hz       Yes         • Rated value 60 Hz       Yes         Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Prives       Line HAD graphics controller         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM		100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
• Rated value 60 Hz       Yes         Mains buffering       20 ms         • Mains/voltage failure stored energy time       20 ms         Power loss       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Prives       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM		
Mains buffering       20 ms         Power loss       In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Prives       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM		Yes
• Mains/voltage failure stored energy time       20 ms         Power loss       In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Drives       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	• Rated value 60 Hz	Yes
Power loss         In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Graphics controller         Drives       Intel HD graphics controller         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	Mains buffering	
In full configuration       24 V DC: max. 65 W, PCIe APCB additionally 5 W         Processor       Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Drives       Intel HD graphics controller         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	<ul> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel C236 / Intel H110         Graphics controller       Intel HD graphics controller         Drives       4.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	Power loss	
Processor         Processor type       Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)         Chipset       Intel C236 / Intel H110         Graphic       Intel C236 / Intel H110         Graphics controller       Intel HD graphics controller         Drives       4.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	In full configuration	24 V DC: max. 65 W, PCIe APCB additionally 5 W
Processor typeCeleron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, iAMT); Xeon E3-1505L v5 (4C/8T, 2.0 (2.8) GHz, 8 MB Cache, iAMT)ChipsetIntel C236 / Intel H110GraphicIntel C236 / Intel H110Graphics controllerIntel HD graphics controllerDrives2.5" SATA ≥ 320 GB SSDSSDYes; 128 / 240 / 480 GBMemoryDDR4-2400 SO-DIMM		
Chipset       Intel C236 / Intel H110         Graphic       Intel HD graphics controller         Graphics controller       Intel HD graphics controller         Drives       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM	Processor type	1.9 GHz, 3 MB Cache); Core i5-6442EQ (4C/4T, 1.9 (2.7) GHz, 6 MB
Graphic         Graphics controller         Intel HD graphics controller         Drives         Hard disk       2.5" SATA ≥ 320 GB         SSD       Yes; 128 / 240 / 480 GB         Memory       DDR4-2400 SO-DIMM		,
Graphics controller     Intel HD graphics controller       Drives       Hard disk     2.5" SATA ≥ 320 GB       SSD     Yes; 128 / 240 / 480 GB       Memory     DDR4-2400 SO-DIMM		Intel C236 / Intel H110
Drives       Hard disk     2.5" SATA ≥ 320 GB       SSD     Yes; 128 / 240 / 480 GB       Memory     DDR4-2400 SO-DIMM	Graphic	
Hard disk         2.5" SATA ≥ 320 GB           SSD         Yes; 128 / 240 / 480 GB           Memory         DDR4-2400 SO-DIMM	Graphics controller	Intel HD graphics controller
SSD     Yes; 128 / 240 / 480 GB       Memory     DDR4-2400 SO-DIMM	Drives	
Memory         DDR4-2400 SO-DIMM	Hard disk	2.5" SATA ≥ 320 GB
Type of memory DDR4-2400 SO-DIMM	SSD	Yes; 128 / 240 / 480 GB
	Memory	
Main memory 4 / 8 / 16 GB, ECC optional	Type of memory	DDR4-2400 SO-DIMM
		4 / 8 / 16 GB, ECC optional

Subject to change without notice © Copyright Siemens

Capacity of main memory, max.	16 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
Number of PCI slots	1; Optional
Number of compact flash slots	1: CFast
Interfaces	
Number of industrial Ethernet interfaces	3: 3x Ethernet (RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse	USB / USB
serial interface	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Video interfaces	
Graphics interface	2x DisplayPort
Industrial Ethernet	
<ul> <li>Industrial Ethernet interface</li> </ul>	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
• Fan	No
<ul> <li>Monitoring function via network</li> </ul>	Optional
EMC	
Interference immunity against discharge of static electricity	
<ul> <li>Interference immunity against discharge of static electricity</li> </ul>	$\pm 6$ kV contact discharge acc. to IEC 61000-4-2; $\pm 8$ kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagneti	ic fields
<ul> <li>Interference immunity against high frequency radiation</li> </ul>	10 V/m, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2 2.7 GHz; 10 V, 10 kHz 80 MHz acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
<ul> <li>Interference immunity on supply cables</li> </ul>	$\pm 2$ kV acc. to IEC 61000-4-4, burst; $\pm 1$ kV acc. to IEC 61000-4-5, surge symmetric; $\pm 2$ kV acc. to IEC 61000-4-5, surge asymmetric
<ul> <li>Interference immunity on signal cables &gt;30m</li> </ul>	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m
<ul> <li>Interference immunity on signal cables &lt; 30m</li> </ul>	±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
Interference immunity to magnetic fields at 50 Hz	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
Interference emission via line/AC current cables	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
CULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R) FCC	Yes
	Yes

EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A
Use in hazardous areas	
ATEX Zone 2	Yes; Optional, only with Multitouch
IECEx Zone 2	Yes; Optional, only with Multitouch
<ul> <li>cULus Class I Zone 2, Division 2</li> </ul>	Yes; Optional, only with Multitouch
Marine approval	
Germanischer Lloyd (GL)	Yes
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes
<ul> <li>Bureau Veritas (BV)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes
Ambient conditions	
Ambient temperature during operation	
<ul> <li>Ambient temperature during operation</li> </ul>	0 °C to 45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 $^\circ\mathrm{C}$ (no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s <sup>2</sup> (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s <sup>2</sup> (hard disk)
Shock testing	
<ul> <li>Shock load during operation</li> </ul>	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)
Operating systems	
pre-installed operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
without operating system	Yes; Optional
pre-installed operating system	
Windows 7	Yes; Ultimate 64 bit
Windows 10 Enterprise	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Software	
SIMATIC Software	Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle
Dimensions	
Width of the housing front	415 mm
Height of housing front	310 mm
Mounting cutout, width	396 mm
Mounting cutout, height	291 mm
Overall depth	76 mm
<ul> <li>additional mounting depth (optical drive)</li> </ul>	26 mm
Weights	
Weight, approx.	6.8 kg
last modified:	12/21/2020 🖸