## **SIEMENS**

## **Data sheet**

## 6AV7241-7BG02-3FA0

SIMATIC IPC 477E 15" touch (1280 x 800); with front USB; 4 USB (back), Ethernet (10/100/1000); XEON E3-1505L; 3x Gbit Ethernet (IE/PN); 8 GB and NVRAM; without RS 232/RS485; without PCle; Win Embedded Standard 7 SP1, English, 64-bit; CFAST 8 GB, (only optionally with operating system/SW, if no internal mass storage); 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

	ilidustriai power suppry
General information	
Product type designation	IPC477E
Display	
Design of display	15" TFT touch
Screen diagonal	15.6 in
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	1 280 pixel
<ul> <li>Vertical image resolution</li> </ul>	800 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Control elements	
Input device	
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
nstallation type/mounting	,
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
central design	Yes
•	No
distributed design	Yes
Mounting in portrait format possible	Tes
Supply voltage	400/040 V AO (t
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	
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 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	Intel HD graphics controller
Prives	
Hard disk	2 5" SATA > 220 CD
SSD	2.5" SATA ≥ 320 GB Yes; 128 / 240 / 480 GB
	1 es; 126 / 240 / 460 GB
Memory	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional 16 Gbyte
Capacity of main memory, max.	

Detentive data area (incl. timera counters flore) may	F12 kbyte: 120 KD can be stared in the buffer time; entianal
Retentive data area (incl. timers, counters, flags), max.  Hardware configuration	512 kbyte; 128 KB can be stored in the buffer time; optional
Slots	
	Av DCla (alat with pard ratainer) Av alat for CEACT and
• 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	
<ul> <li>Temperature monitoring</li> </ul>	Yes
<ul> <li>Watchdog</li> </ul>	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>	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2
Interference immunity against high-frequency electromagnetic fie	elds
Interference immunity against high frequency radiation	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	
Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±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
• Interference immunity on signal cables < 30m	$\pm 1$ kV acc. to IEC 61000-4-4; burst; length < 3 m; $\pm 2$ kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
<ul> <li>asymmetric interference</li> </ul>	±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	
<ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
<ul> <li>Interference emission via line/AC current cables</li> </ul>	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)	Yes
FCC	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
→ ATEA ZONG Z	100, Optional, only with indutiouth

e. cluse I Zone 2, Division 2  Marine approval  Germanischer Lloyd (GL)  American Bureau of Shipping (ABS)  Bureau Vertias (BV)  Eb Bureau Vertias (BV)  Eb Bureau Vertias (BNV)  Eb Loyds Register of Shipping (RRS)  El Loyds Register Shipping (RRS)  El Loyds Register Register of Shipping (RRS)  El Loyds Register Shipping (RRS)  El C 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation)  El C 60068-2-78, IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation)  El C 60068-2-78, IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °C (no condensation)  El C 60068-2-78, IEC 60068-2-78, IEC 60068-2-30; 5% to 80% at 25 °	• IECEx Zone 2	Yes; Optional, only with Multitouch	
Germanischer Lloyd (GL) American Bureau of Shipping (ABS) American Bureau of Shipping (ABS) Bureau Verlias (BV) Det Norske Verlias (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (KRS) Pes Nippon Kaiji Kyokal (Class NK) Ambient temperature during operation min. min. max. 45 °C Ambient temperature during storage/transportation min. max. 60 °C Relative humidity Relative humidity Relative humidity Relative humidity  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations Vibration resistance during operation acc. to IEC 60068- 2-6 Shock testing Shock kesting Shock kesting Shock kesting Windows 7 Utilimate (Multi-Language) 64-bit, Windows Embedded Standard 7 Epr 32 bit / 64-bit, Windows 10 Windows 7 Windows 7 Windows 7 Windows 7 Nes: Windows 10 Enterprise Windows 7 Nes: Windows 10 Enterprise 2016 LTSB, 64 bit, MUl Software SIMATIC Software Operating quotified from Mounting cutout, width Mounting cutout, width Mounting cutout, width Mounting cutout, width Auditional mounting depth (optical drive) Windows additional mounting depth (optical drive) Wolgitts Wolgitts Wolgitts Wolgitts Wolgitts Wolgitts	<ul> <li>cULus Class I Zone 2, Division 2</li> </ul>	Yes; Optional, only with Multitouch	
American Bureau of Shipping (ABS)     Bureau Veritas (BV)     Yes     Det Norsek Veritas (BV)     Korean Register of Shipping (KRS)     Lioyds Register of Shipping (KRS)     Lioyds Register of Shipping (LRS)     Nippon Kagli Kyoka (Class NK)  Ambient conditions  Ambient conditions  Ambient temperature during operation     min.     max.  Af5 °C  Ambient temperature during storage/fransportation      min.     max.  Af5 °C  Ambient temperature during storage/fransportation      min.     max.  Af5 °C  Ambient temperature during storage/fransportation      min.     max.  Af5 °C  Ambient temperature during storage/fransportation      min.     prax.  Af5 °C  Ambient temperature during storage/fransportation      min.     prax.  Af5 °C  Ambient temperature during storage/fransportation      min.     prax.  Af5 °C  Ambient temperature during storage/fransportation      prax.  Af5 °C  Code °	Marine approval		
Bureau Veritas (BV)  Det Norske Veritas (DNV)  Pes  Cross Register of Shipping (KRS)  Lloyds Register of Shipping (KRS)  Lloyds Register of Shipping (LRS)  Lloyds Register of Shipping (LRS)  Nippon Kaji Kyokal (Class NK)  Ambient conditions  Ambient temperature during operation  min.  o "C  max.  45 "C  Ambient temperature during storage/transportation  min.  emax.  60 "C  Relative humidity  Relative humidity  Relative humidity  Fested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 "C (no condensation))  Vibrations  Vibrations  Vibration resistance during operation acc. to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)  Operating systems  pre-installed operating system  pre-installed operating system  pre-installed operating system  pre-installed operating system  Periodovs 7  Vibrations  Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 Epr 32-bit (7-64-bit, 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  Height of housing front  Height of housing front  Height of housing front  Mounting cutout, weith  Mounting cutout, weith  Additional mounting depth (optical drive)  Wooglits  Widgints	Germanischer Lloyd (GL)	Yes	
Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Li bloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK)  Ambient conditions  Ambient temperature during operation Imin. Image: Market	<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes	
Korean Register of Shipping (KRS)     Lloyds Register of Shipping (LRS)     Nippon Kaji Kyokai (Class NK)  Ambient conditions  Ambient temperature during operation     min. 0°C     max. 45°C  Ambient temperature during storage/transportation     min20°C     max. 66°C  Relative humidity     Relative humidity     Relative humidity     Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25°C (no condensation)  Vibrations     Vibration resistance during operation acc. to IEC 60068-2 2-6 CFess); 10 Hz to 58 Hz: 0.0375°mm; 58 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375°mm; 58 Hz to 200 Hz: 4.9 m/s² (hand disk)  Shock lesting     Shock load during operation     EIEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)  Per-Installed operating system  Per-Installed operating system  Windows 7 Windows 10 Enterprise  Windows 7 Yes; Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/F 32-bit / 64-bit, Windows 10  Yes; Optional  Without operating system  Per-Installed operating system  Per-Installed operating system  Windows 7 Yes; Ultimate 64 bit  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  With of the housing front  Height of housing front  Height of housing front  Per additional mounting depth (optical drive)  Page 10 mm  Overall depth  Additional mounting depth (optical drive)  Wolghts	Bureau Veritas (BV)	Yes	
Lloyds Register of Shipping (LRS) Nippon Kaji Kyokal (Class NK)  Ambient temperature during operation  min. max. 45 ° C  Ambient temperature during storage/fransportation  min. max. 45 ° C  Ambient temperature during storage/fransportation  min. max. 60 ° C  Relative humidity  Relative humidity  Relative humidity  Vibrations  Vibration resistance during operation acc. to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 98 Hz to 200 Hz: 4.9 m/s² (hard disk)  Shock testing  Shock load during operation  EC 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  Without operating system  Windows 7 Ultimate (Mutit-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10  Without operating system  Windows 7 Yes; Optional  pre-installed operating system  Windows 7 Yes; Ultimate 64 bit  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  Height of housing front  Mounting cutout, width  a 36d mm  Mounting cutout, height  Overall depth  a ddditional mounting depth (optical drive)  Welghts	<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes	
Nippon Kaiji Kyokai (Class NK)  Ambient conditions  Ambient temperature during operation  • min. • max. 45 °C  Ambient temperature during storage/transportation  • min. • max. 45 °C  Ambient temperature during storage/transportation  • min. • max. 60 °C  Relative humidity  • Nibration resistance during operation acc. to IEC 80068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)  Shock lesting  • Shock load during operation    EC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)    Operating systems	<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes	
Ambient conditions  Ambient memorature during operation  • min.  • max.  45 °C  Ambient temperature during storage/transportation  • min.  • max.  45 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Relative humidity  • Relative humidity  • Relative humidity  • Relative humidity  • Relative numidity  • Relative humidity  • Sibration resistance during operation acc. to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 9 Hz to 500 Hz: 9.8 m/s² (hard disk)  Shock testing  • Shock load during operation  EC 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  without operating system  • Windows 7  • Windows 7  • Windows 10 Enterprise  • Windows 7  • Windows 10 Enterprise  SIMATIC Software  SIMATIC Software  SIMATIC Software  Width of the housing front  Height of housing front  # Additional mounting depth (optical drive)  Wolghts  Wolghts	<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes	
Ambient temperature during operation  • min.  • max.  45 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Relative humidity  • Relative humidity  • Relative humidity  • Vibrations  • Vibration resistance during operation acc. to IEC 60068-2-6.  Shock testing  • Shock load during operation  • Shock load during operation    EC 60068-2-5; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)    Operating systems	<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes	
• min.     • max.     Anbient temperature during storage/transportation     • min.     • max.     • max.     • 60 °C Relative humidity     • Vibration resistance during operation acc. to IEC 60068-2     • Vibration resistance during operation acc. to IEC 60068-2     • Shock testing     • Shock load during operation     • Shock load during operation     • Shock load during operation     • Windows 7 Utitimate (Multi-Language) 64-bit, Windows Embedded Standard 7 EIP 32-bit 764-bit, Windows 10     • Windows 7 Yes; Optional     pre-installed operating system     • Windows 7 Yes; Windows 10 Enterprise     • 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     • Ald Siman Mounting cutout, width     • additional mounting depth (optical drive)     • 86 mm  Woulding additional mounting depth (optical drive)     • 86 mm  Weights	Ambient conditions		
Max.	Ambient temperature during operation		
Ambient temperature during storage/transportation  Implication  Implic	• min.	0 °C	
<ul> <li>• min.</li> <li>• max.</li> <li>60 °C</li> <li>Relative humidity</li> <li>• Relative humidity</li> <li>• Relative humidity</li> <li>• Relative humidity</li> <li>• Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)</li> <li>• Vibrations</li> <li>• Vibration resistance during operation acc. to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)</li> <li>Shock load during operation</li> <li>IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)</li> <li>Operating systems</li> <li>pre-installed operating system</li> <li>∀indows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10</li> <li>without operating system</li> <li>• Windows 7</li> <li>Yes; Optional</li> <li>pre-installed operating system</li> <li>• Windows 10 Enterprise</li> <li>Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI</li> <li>Software</li> <li>Software</li> <li>Software</li> <li>Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle</li> <li>Dimensions</li> <li>Width of the housing front</li> <li>Height of housing front</li> <li>Mounting cutout, width</li> <li>996 mm</li> <li>Mounting cutout, height</li> <li>Overall depth</li> <li>• additional mounting depth (optical drive)</li> <li>Woights</li> </ul>	• max.	45 °C	
Max.   60 °C	Ambient temperature during storage/transportation		
Relative humidity  Relative humidity  Relative humidity  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations  Vibration resistance during operation acc. to IEC 60068-2-6 2-6  Shock testing  Neck load during operation  Relative humidity  Pre-installed operating system  Pre-installed operating system  Pre-installed operating system  Viindows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10  Windows 7 Yes; Optional  Pre-installed operating system  Pre-installed operating system  Viindows 10 Enterprise 2016 LTSB, 64 bit, MUl  Software  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  Auditional mounting depth (optical drive)  Weights	• min.	-20 °C	
Relative humidity  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations  Vibration resistance during operation acc. to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)  Shock testing  Shock load during operation  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  Yes; Optional  pre-installed operating system  Windows 7  Yes; Ultimate 64 bit  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  Height of housing front  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights	• max.	60 °C	
Vibrations  Vibration resistance during operation acc. to IEC 60068- 2-6  Vibration resistance during operation acc. to IEC 60068- 2-6  Shock testing  Shock load during operation  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  Ves; Optional  Pre-installed operating system  Windows 7 Yes; Ultimate 64 bit  Windows 10 Enterprise  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  Mounting cutout, width  Auditional mounting depth (optical drive)  Weights	Relative humidity		
Vibration resistance during operation acc. to IEC 60068- 2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)  Shock testing  Shock load during operation  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  Pre-installed operating system  Yes; Optional  pre-installed operating system  Ves; Optional  Pre-installed operating system  Ves; Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10  Ves; Optional  Pre-installed operating system  Ves; Ultimate 64 bit  Ves; 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  Height of housing front  Height of housing front  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Vesights	Relative humidity	, , , , , , , , , , , , , , , , , , ,	
2-6 CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)  Shock testing  Shock load during operation  IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s³, 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  Pre-installed operating system  Windows 7  Windows 10 Enterprise  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  396 mm  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights	Vibrations		
Shock load during operation  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  Windows 7  Windows 7  Windows 7  Windows 10 Enterprise  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  Additional mounting depth (optical drive)  Weights			
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  Pre-installed operating system  Windows 7  Windows 7  Windows 10 Enterprise  Software  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  Additional mounting depth (optical drive)  Weights	Shock testing		
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  Pre-installed operating system  Windows 7  Windows 7  Windows 10 Enterprise  Software  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front Height of housing front Height of housing front Mounting cutout, width Mounting cutout, width Overall depth Additional mounting depth (optical drive)  Weights	Shock load during operation		
without operating system  Pre-installed operating system  Windows 7  Windows 10 Enterprise  Windows 10 Enterprise  Yes; Ultimate 64 bit  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  Height of housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  Additional mounting depth (optical drive)  Weights	Operating systems		
pre-installed operating system  ● Windows 7  ● Windows 10 Enterprise  SIMATIC Software  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  ● additional mounting depth (optical drive)  Yes; Ultimate 64 bit  Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI  Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front  415 mm  415 mm  400 mm  Mounting cutout, width  396 mm  Mounting cutout, height  Overall depth  • additional mounting depth (optical drive)  Weights	pre-installed operating system		
● Windows 7  ● 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  ● additional mounting depth (optical drive) 26 mm  Weights	without operating system	Yes; Optional	
● Windows 10 Enterprise  Software  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth ● additional mounting depth (optical drive)  Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  150 mm  415 mm  415 mm  310 mm  Mounting cutout, width 396 mm  Mounting cutout, height 291 mm  Overall depth ● additional mounting depth (optical drive)  Weights	pre-installed operating system		
Software  SIMATIC Software  Optionally with pre-installed SIMATIC WinCC RT Advanced / Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front Height of housing front Mounting cutout, width 396 mm Mounting cutout, height Overall depth o additional mounting depth (optical drive)  Weights	<ul><li>Windows 7</li></ul>	Yes; Ultimate 64 bit	
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  ● additional mounting depth (optical drive)  Weights	<ul> <li>Windows 10 Enterprise</li> </ul>	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI	
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  • additional mounting depth (optical drive) 26 mm  Weights	Software		
Width of the housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  additional mounting depth (optical drive)  Weights  415 mm  415 mm  291 mm  76 mm  291 mm  76 mm  26 mm	SIMATIC Software		
Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  ● additional mounting depth (optical drive)  396 mm  76 mm  ● additional mounting depth (optical drive)  Weights	Dimensions		
Mounting cutout, width     396 mm       Mounting cutout, height     291 mm       Overall depth     76 mm       ● additional mounting depth (optical drive)     26 mm       Weights	Width of the housing front	415 mm	
Mounting cutout, height  Overall depth  • additional mounting depth (optical drive)  Weights  291 mm  76 mm  26 mm	Height of housing front	310 mm	
Overall depth 76 mm  • additional mounting depth (optical drive) 26 mm  Weights	Mounting cutout, width	396 mm	
• additional mounting depth (optical drive)  Weights  26 mm	Mounting cutout, height	291 mm	
Weights	Overall depth	76 mm	
	<ul> <li>additional mounting depth (optical drive)</li> </ul>	26 mm	
Weight, approx. 6.8 kg	Weights		
	Weight, approx.	6.8 kg	

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