## **SIEMENS**

## **Data sheet**

## 6AV7241-3EB07-0DA1

	101 110/230 V AC F3,
General information	
Product type designation	IPC477E
Display	
Design of display	22" TFT touch
Screen diagonal	21.5 in
Resolution (pixels)	
Horizontal image resolution	1 920 pixel
<ul> <li>Vertical image resolution</li> </ul>	1 080 pixel
Backlighting	
MTBF backlighting (at 25 °C)	30 000 h
Control elements	
Input device	
Mouse, at front	No
Keyboard fonts	
Function keys	No
alphanumeric keyboard	No
Touch operation	
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	
Type of supply voltage	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Line frequency	3,7,000
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. 74 W, PCIe APCB additionally 5 W
Processor	21 V Bo. max. 1 1 VI, 1 olo VII ob additionally o VI
Processor type	Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9
Trocessor type	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
Drives	
Hard disk	2.5" SATA ≥ 320 GB
SSD	Yes; 128 / 240 / 480 GB
Memory	
Type of memory	DDR4-2400 SO-DIMM
Main memory	4 / 8 / 16 GB, ECC optional
Capacity of main memory, max.	16 Gbyte
1 9	

Data areas and their retentivity	54011 1 4001/D
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
<ul> <li>Number of PCI slots</li> </ul>	1; Optional
<ul> <li>Number of compact flash slots</li> </ul>	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	
Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
	Voc
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
● Fan	No
Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electricity	
<ul> <li>Interference immunity against discharge of static</li> </ul>	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC
electricity	61000-4-2
Interference immunity against high-frequency electromagnetic f	
<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	31.2, 10 V, 10 Kt.2 30 Mil 2 doc. to 120 01000 1 0
Interference immunity on supply cables	±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge
• Interference infinitintly off supply cables	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
<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	
<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	
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	11 20
	Voc
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

** IECE X Zone 2  ** CULus Class I Zone 2, Division 2  ** Cultus Class I Zone 2, Division 2  ** Cermanischer Lioyd (GL)  ** American Bureau of Shipping (ABS)  ** Eureau Vertias (BV)  ** Det Norske Veritas (DNV)  ** Exercise Register of Shipping (RRS)  ** Lioyds Register of Shipping (RRS)  ** Nippon Kajil Kryokai (Class NK)  ** Nippon Kajil Kryoka	ATEX Zone 2	Yes; Optional, only with Multitouch
- «Clus Class I Zone 2, Division 2  Marine approval  - Germanischer Lloyd (GL)  - American Bureau of Shipping (ABS)  - Bureau Veritas (BV)  - Per Norske Veritas (DNV)  - Norske Veritas (DNV)  - Norsan Register of Shipping (RRS)  - Uclyds Register of Shipping (RRS)  - Nippon Kaji Kyokai (Class NK)  - Manbient temperature during operation  - min.  - and "C  - Ambient temperature during storage/transportation  - min.  - and "C  - Relative humidity  - Relative humidity  - Relative humidity  - Relative humidity  - Nippon Kaji Kyokai (Class NK)  - Vibration resistance during operation acc. to IEC 80088-  - B  - C  - C  - C  - C  - C  - C  -		
### Semantischer Lloyd (GL)  ### Germanischer Lloyd (GL)  ### American Bureau of Shipping (ABS)  ### Det Norske Veritas (BV)  ### De		
Germanischer Lloyd (GL) American Bureau of Shipping (ABS) American Bureau of Shipping (ABS) Bureau Vertias (BV) Det Norske Veritas (DNV) Korean Register of Shipping (LRS) Lloyds Register of Shipping (LRS) Nippon Kalji Kyokai (Class NK) Ambient temperature during operation  min. O °C max. As °C Ambient temperature during operation  min. O °C 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  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 (with SSD or Shock testing  Shock testing Shock testing  Shock during operation  Without operating system  Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/F 32-bit / 64-bit, Windows 10 Enterprise  Windows 7 Yes; Ultimate 64 bit Windows 7 Yes; Ultimate 64 bit Windows 7 Yes; Windows 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, leight Overall depth Widights		165, Optional, only war manacount
American Bureau of Shipping (ABS)     Bureau Veritas (BV)     Yes     Det Norse Veritas (DNY)     Korean Register of Shipping (KRS)     Licyds Register of Shipping (KRS)     Nippon Kagli Kyckal (Class NK)     Nippon Kagli Kyckal (Class NK)     Nes     Nippon Kagli Kyckal (Class NK)     Nes     Nippon Kagli Kyckal (Class NK)     Nes     Ambient temperature during operation     min.     o ° C     Ambient temperature during storage/transportation     min.     emax.     As ° C  Ambient temperature during storage/transportation     emin.     emax.     80 ° C  Relative humidity     Relative humidity humidity humidity humidity humidity humidity humidity	• •	Voc
Bureau Veritas (BV) Det Norske Veritas (DNV) Pes Dit Norske Veritas (DNV) Norske Veritas (DN		
Det Norske Verlas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyoka (Class NK) Yes Nippon Kaiji Kyoka (Class NK) Yes  Ambient temperature during operation mm. o"C Ambient temperature during operation o"C Ambient temperature during storage/transportation o"min. o"max. d5 "C Ambient temperature during storage/transportation o"min. o"max. d60 "C Relative humidity o"Relative humidity		
Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Lloyds Register of Shipping (LRS) Nippon Kajir Kyokai (Class NK)  Ambient conditions  Ambient temperature during operation  • min. • o °C  Ambient temperature during storage/transportation • min. • azo °C  Ambient temperature during storage/transportation • min. • azo °C  Relative humidity  • 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; 58 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  Windows 7 Utlimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/F 32-bit (84-bit, Windows 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 Height of housing front Height of housing front Height of housing front Mounting cutout, width Mounting cutout, width Mounting cutout, width Weights	• •	
Lloyds Register of Shipping (LRS) Nippon Kaji Kyokal (Class NK) Yes  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  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  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 CFsst); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (with ASD or CFsst); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)  Coporating systems  pre-installed operating system  pre-installed operating system  Without operating system  Ves; Optional  pre-installed operating system  Ves; Optional  pre-installed operating system  Ves; Optional  pre-installed operating system  Ves; Windows 7  Ves; Ultimate 64 bit  Ves; 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  Height of housing front  Height of housing front  Mounting cutout, width  Mounting cutout, height  Overall depth  Weights	, ,	
Nippon Kaiji Kyokai (Class NK)  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; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 55 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (thard disk)  Shock leating Shock leating Shock leating Windows 7  Windows 7  Windows 7  Windows 7  Windows 7  Windows 7  Vibratiled operating system  Windows 7  Visit gystem  Ves; Optional  Ves; Ultimate 64 bit Ves; 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 Height of housing front Mounting cutout, width Mounting cutout, height  Overall depth  Woldpluts  Vesights  Vesights  Vesights  Vesights  Vesights		
Ambient conditions  Ambient memerature during operation  • min.		
Ambient temperature during operation  • min.  • max.  45 °C  Ambient temperature during storage/transportation  • min.  • max.  60 °C  Relative humidity  • Relative humidity  • Relative humidity  • Relative humidity  • Nibration resistance during operation acc. to IEC 60068-2-6  Shock testing  • Nibration 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  Fer-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 Yes; Optional  pre-installed operating system  • Windows 10 Enterprise  SitMATIC 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  Mounting cutout, width  Mounting cutout, height  Overall depth  Wolghts		165
min.		
Max.		0.0℃
Ambient temperature during storage/transportation  • min.  • max.  60 °C  Relative humidity  • Relative humidity  • Relative humidity  • 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/s³, 30 ms (with hard disk)    Operating systems		
<ul> <li>• min.</li> <li>• max.</li> <li>60 °C</li> <li>Relative humidity</li> <li>• Relative humidity</li> <li>• State 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 testing</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>• Windows 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 10 Enterprise</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>Mounting cutout, width</li> <li>542 mm</li> <li>Overall depth</li> <li>76 mm</li> <li>Weights</li> </ul>		40 0
Max.   60 °C		-20 °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 60068-2-6; 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 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  Ves; Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10  Windows 7  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  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  Vibration 1 set according to IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  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 mm; 9 Hz to 500 Hz: 4.9 mm;		
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 lesting  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 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10  Yes; Optional  pre-installed operating system  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  76 mm  Weights		
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  Pre-installed operating system  Yes; Optional  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 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  Mounting cutout, width 542 mm  Mounting cutout, width 76 mm  Weights	,	Tested according to IEC 60068-2-78 IEC 60068-2-30: 5% to 80% at 25 °C (no
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/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/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     • 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     542 mm     Mounting cutout, height     Overall depth  Weights	• Relative Humanty	
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  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  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, width  Mounting cutout, height  Overall depth  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 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  76 mm  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  • 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  Vindows 7  Age (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10  Yes; Optional  Yes; Ultimate 64 bit Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI  Software Controller CPU 1500S software bundle  Dimensions  Width of the housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height Overall depth 76 mm  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  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  542 mm  Mounting cutout, height  362 mm  Overall depth  76 mm  Weights	Shock load during operation	
## E/P 32-bit / 64-bit, Windows 10  without operating system  pre-installed operating system  Windows 7  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  Mounting cutout, width  Mounting cutout, width  Mounting cutout, height  Overall depth  Weights	Operating systems	
pre-installed operating system  ● 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 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  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 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 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 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  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 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  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 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  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 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  Weights	Software	
Width of the housing front 560 mm  Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  Weights	SIMATIC Software	
Height of housing front 380 mm  Mounting cutout, width 542 mm  Mounting cutout, height 362 mm  Overall depth 76 mm  Weights	Dimensions	
Mounting cutout, width  Mounting cutout, height  Overall depth  Weights  542 mm  362 mm  76 mm	Width of the housing front	560 mm
Mounting cutout, height 362 mm  Overall depth 76 mm  Weights	Height of housing front	380 mm
Overall depth 76 mm Weights	Mounting cutout, width	542 mm
Weights	Mounting cutout, height	362 mm
	Overall depth	76 mm
Weight, approx. 9.5 kg	Weights	
	Weight, approx.	9.5 kg

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