## **SIEMENS**

## Data sheet 6AV7241-7LB03-0FA0

SIMATIC IPC 477E 22" Multitouch (1920 x 1080); 4 USB (back), Ethernet (10/100/1000); XEON E3-1505L; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; without PCle; Win Embedded Standard 7 P SP1, MUI, 64-bit, multitouch; Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

| General information  |  |
|--|--|
| Product type designation                                     | IPC477E  |
| Display  |  |
| Design of display  | 22" TFT multi-touch  |
| Screen diagonal  | 21.5 in  |
| Resolution (pixels)  |  |
| <ul> <li>Horizontal image resolution</li> </ul>              | 1 920 pixel  |
| Vertical image resolution                                    | 1 080 pixel  |
| Backlighting   |  |
| <ul> <li>MTBF backlighting (at 25 °C)</li> </ul>             | 30 000 h   |
| Control elements   |  |
| Input device   |  |
| <ul> <li>Mouse, at front</li> </ul>                          | No   |
| Keyboard fonts   |  |
| <ul><li>Function keys</li></ul>                              | No   |
| alphanumeric keyboard  | No   |
| Touch operation  |  |
| Design as multi-touch screen                                 | Yes; Projective-capacitive   |
| 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   |  |
| <ul> <li>Rated value 50 Hz</li> </ul>                        | Yes  |
| Rated value 60 Hz  | Yes  |
| Mains buffering  |  |
| <ul> <li>Mains/voltage failure stored energy time</li> </ul> | 20 ms  |
| Power loss   |  |
| In full configuration  | 24 V DC: max. 88 W, 110 230 V AC   |
| 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   |
| 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   |
| 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   |
|  |  |

| lardware configuration   |  |
|--|--|
| Slots  | Au DOIs (slat with soul rate in -) Au slat for OFACT   |
| • 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   |
| iterfaces  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   | William P. Com (No 2027 1227 100), colocidado in tilo 2100   |
| Graphics interface   | 2x DisplayPort   |
| Industrial Ethernet  |  |
| Industrial Ethernet interface  | 3x Ethernet (RJ45)   |
| — 100 Mbps   | Yes  |
| — 1000 Mbps  | Yes  |
| nterrupts/diagnostics/status information   |  |
| Bus diagnostics  | Yes  |
| ntegrated Functions  |  |
| Monitoring functions   |  |
| Temperature monitoring   | Yes  |
| Watchdog   | Yes  |
| • Fan  | No   |
| Monitoring function via network  | Optional   |
| :MC  |  |
| 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 electromagnetic field                           | ds   |
| 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  |  |
| <ul> <li>Interference immunity on supply cables</li> </ul>                                   | ±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    |
| a Interference immunity an eignel cables > 20m   |  |
| Interference immunity on signal cables >30m     Interference immunity on signal cables < 30m | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m<br>±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4 |
| <ul> <li>Interference immunity on signal cables &lt; 30m</li> </ul>                          | 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)  | 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  |
|  | Yes; Optional, only with Multitouch  |

| Germanischer Lidyd (GL)     Germanischer Lidyd (GS)     American Bureau of Shipping (ABS)     Bureau Verlas (BV)     Det Norske Veritas (DNV)     Korean Register of Shipping (KRS)     Lloyds Register of Shipping (KRS)     Nippon Kaiji Kyokai (Class NK)     Nippon Kaiji Kyokai (Class NK)  Ambient conditions  Ambient temperature during operation     min.     min.     min.     min.     max.     60 °C  Ambient temperature during storage/transportation     min.     min.     max.     60 °C  Relative humidity     Relative humidity      Relative hu      | • cULus Class I Zone 2, Division 2                | Yes; Optional, only with Multitouch               |
|--|---|---|
| Germanischer Lloyd (GL) American Bureau of Shipping (ABS) American Bureau of Shipping (ABS) Bureau Vertias (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Pes Nippon Kajii Kyokai (Class NK) Pes Nippon Kajii Kyokai (Class NK) Ambient temperature during operation Imin. O "C Imin. O "Imin. O  |   |   |
| American Bureau of Shipping (ABS) Bureau Veritas (BV) Ves Bureau Veritas (BV) Ves Oet Norse Veritas (DNY) Ves Licyds Register of Shipping (KRS) Licyds Register of Shipping (KRS) Ves Nippon Kapil Kyokai (Class NK) Ves Nippon Kapil Kyokai (Class NK) Ves Ambient conditions Ambient temperature during operation  — min. — max. Af5 °C Ambient temperature during storage/transportation  — min. — emax. — 60 °C Ambient temperature during storage/transportation  — min. — emax. — 60 °C Relative humidity Relative humidity  — Relative humidity  — Relative humidity — Relativ  |   | Yes   |
| Bureau Veritas (BV) Det Norske Veritas (DNV) Pes Othorske Veritas (DNV) Nos Norske Veritas (DNV) Nos Norske Veritas (DNV) Nos Nippon Kaiji Kyokal (Class NK) Nes Nippon Kaiji Kyokal (Class NK) Nes Nippon Kaiji Kyokal (Class NK) Nes Ambient temperature during operation min. max. Af5 °C Ambient temperature during storage/transportation min. max. Af5 °C Ambient temperature during storage/transportation min. max. Af5 °C Ambient temperature during storage/transportation min. max. Af5 °C Arbient temperature during operation Normal max. Bo °C Relative humidity  Relative humidity  Relative humidity  Itested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Nutrations Vibration resistance during operation acc. to IEC 60068-2-8, 5 Hz to 9 Hz: 9.5 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 system  pre-installed operating system  Pre-install  | * * *   | Yes   |
| Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nessessite of Shipping (LRS) Nessessit  |   | Yes   |
| Lloyds Register of Shipping (LRS) Nippon Kaji kyokai (Class NK)  Ambient conditions  Ambient temperature during operation  min. min. min. min. min. min. min. mi   | , ,   | Yes   |
| Lloyds Register of Shipping (LRS) Nippon Kaji kyokal (Class NK) Yes  Ambient conditions  Ambient emperature during operation  min. min. max.  At 5 °C  Ambient emperature during storage/transportation  min. min. max.  May 60 °C  Ambient emperature during storage/transportation  min. max.  May 60 °C  Ambient emperature during storage/transportation  min. max.  May 60 °C  Ambient emperature during storage/transportation  min. max.  May 60 °C  Ambient emperature during storage/transportation  May 160 °C  Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)  Vibrations  LEC 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: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 9.8 m/s² (wit  | Korean Register of Shipping (KRS)                 | Yes   |
| Nippon Kalji Kyokai (Class NK)  Ambient temperature during operation  min. max. Afs "C  Ambient temperature during storage/transportation  min. max. Afs "C  Ambient temperature during storage/transportation  min. max. Afs "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/s" (with SSD or CFast); 10 Hz to 55 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s" (hard disk)  Shock leating  Shock load during operation  Windows 1 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 Ves; Ultimate 64 bit Windows 7 Ves; Ultimate 64 bit 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 Height of housing front Mounting cutout, width All municipations  Windows 10  Versil depth Af mm  Wolgints   |   | Yes   |
| Ambient temperature during operation  • min.  • max.  45 °C  Ambient temperature during storage/transportation  • max.  • max.  • max.  • max.  • oo °C  Ambient temperature during storage/transportation  • min.  • max.  • oo °C  Relative humidity  • Relative humidity  • Relative humidity  • Relative humidity  • Vibration resistance during operation acc. to IEC 60068-2-6  Shock testing  • Shock load during operation    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: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 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 (with SSD or CFast); 10 Hz  |   | Yes   |
| <ul> <li>min.</li> <li>0 °C</li> <li>45 °C</li> <li>Ambient temperature during storage/transportation</li> <li>nin:</li> <li>20 °C</li> <li>60 °C</li> <li>Relative humidity</li> <li>Relative humidity</li> <li>Relative humidity</li> <li>Relative humidity</li> <li>Relative numidity</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 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 Ves; Optional</li> <li>without operating system</li> <li>Windows 7 Yes; Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 Fz/P 32-bit / 64-bit, Windows 10 Enterprise 2016 LTSB, 64 bit, MUI</li> <li>Software</li> <li>Simantic 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>Housing cutout, width</li> <li>Housing the minute of t</li></ul>  | Ambient conditions                                |   |
| max. 45 °C  Ambient temperature during storage/transportation  | Ambient temperature during operation              |   |
| Ambient temperature during storage/transportation  Imin. Imi | • min.  | 0 °C  |
| • min.   | • 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; 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 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  513 mm  Mounting cutout, height  Overall depth  76 mm  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  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 513 mm Mounting cutout, Height Overall depth  76 mm  Weights  | • max.  | 60 °C   |
| 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  Ves; Optional  pre-installed operating system  Ves; Optional  Pre-installed operating system  Ves; Optional  Software  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  Mounting cutout, width  513 mm  Mounting cutout, width  513 mm  Overall depth  Vesights  | 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 lead 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; Optionall  pre-installed 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  Vesights   | Relative humidity                                 |   |
| 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  Pes; Optional  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  513 mm  Mounting cutout, width  513 mm  Mounting cutout, height  Overall depth  76 mm  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  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  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  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 Height of housing front Mounting cutout, width 513 mm Mounting cutout, width 76 mm  Weights  | Shock load during operation                       |   |
| without operating system  Pre-installed operating system  Windows 7  Windows 10 Enterprise  Yes; Optional  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 513 mm Mounting cutout, height Overall depth 76 mm  Weights   | Operating systems                                 |   |
| pre-installed operating system   | 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 Height of housing front Mounting cutout, width Mounting cutout, height Overall depth  To 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 529 mm  Height of housing front 331 mm  Mounting cutout, width 513 mm  Mounting cutout, height 315 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 Height of housing front Mounting cutout, width 513 mm Mounting cutout, height 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 529 mm  Height of housing front 331 mm  Mounting cutout, width 513 mm  Mounting cutout, height 315 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 529 mm  Height of housing front 331 mm  Mounting cutout, width 513 mm  Mounting cutout, height 315 mm  Overall depth 76 mm  Weights   | Software  |   |
| Width of the housing front 529 mm  Height of housing front 331 mm  Mounting cutout, width 513 mm  Mounting cutout, height 315 mm  Overall depth 76 mm  Weights   | SIMATIC Software                                  |   |
| Height of housing front 331 mm  Mounting cutout, width 513 mm  Mounting cutout, height 315 mm  Overall depth 76 mm  Weights  | Dimensions  |   |
| Mounting cutout, width 513 mm  Mounting cutout, height 315 mm  Overall depth 76 mm  Weights  | Width of the housing front                        | 529 mm  |
| Mounting cutout, height 315 mm  Overall depth 76 mm  Weights   | Height of housing front                           | 331 mm  |
| Overall depth 76 mm Weights  | Mounting cutout, width                            | 513 mm  |
| Weights  | Mounting cutout, height                           | 315 mm  |
|  | Overall depth                                     | 76 mm   |
| Weight, approx. 7.9 kg   | Weights   |   |
|  | Weight, approx.                                   | 7.9 kg  |

last modified:

6/25/2021