SIEMENS

Data sheet

6AV7241-5LC15-0GA1

| | TIO DIS CEI (IIICALE IOI IIICIII IOI TIO/230 V AC PS, |
|--|--|
| General information | |
| Product type designation | IPC477E |
| Display | |
| Design of display | 22" TFT multi-touch |
| Screen diagonal | 21.5 in |
| Resolution (pixels) | |
| Horizontal image resolution | 1 920 pixel |
| Vertical image resolution | 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 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 | |
| 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. 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 |
| 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 | |
| Industrial Ethernet interface | 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 |
| Monitoring function via network | Optional |
| EMC | |
| Interference immunity against discharge of static electricity | |
| Interference immunity against discharge of static | ±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 field | |
| 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 |
| Interference immunity on signal cables >30m | ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m |
| Interference immunity on signal cables < 30m | ±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) | Yes |
| FCC | Yes |
| EMC | CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A |
| Use in hazardous areas | |

| ** IECE X Zone 2 ** Cltus Class I Zone 2, Division 2 ** Cltus Class I Zone 2, Division 2 ** Ves. Optional, only with Multitouch ** American Bureau of Shipping (ABS) ** American Bureau of Shipping (ABS) ** American Bureau of Shipping (ABS) ** Element Werfas (EV) ** Del Norske Verlas (DNV) ** Element Werfas (EV) ** Nippon Kaji Kyokai (Class NK) ** Ambient temperature during operation ** min. ** on "C ** max. ** Ambient temperature during storage/transportation ** min. ** min. ** min. ** and "C ** max. ** on "C ** Relative humidity ** Relative hu | ATEX Zone 2 | Yes; Optional, only with Multitouch |
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| - CLLus Class I Zone 2, Division 2 Marine approval Germanischer Lloyd (GL) - American Bureau of Shipping (ABS) - Bureau Verltas (BV) - CR Norske Verltas (DNV) - Korean Register of Shipping (KRS) - Divis Register of Shipping (KRS) - Nippon Kaiji Kyokai (Class NK) - Nippon Kaiji Kyokai (Class NK) - Nippon Kaiji Kyokai (Class NK) - Marine temperature during operation - min. - max. - Abient temperature during storage/transportation - min. - max. - Abient temperature during storage/transportation - min. - max. - Relative humidity - Relative humidity - Relative humidity - Relative humidity - Versich (Creas | | |
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| Germanischer Lloyd (GL) American Bureau of Shipping (ABS) American Bureau of Shipping (ABS) Bureau Verfats (BV) Det Norske Verlats (DNV) Korean Register of Shipping (LRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Ambient temegature during operation min. O "C max. Afs "C Ambient temperature during operation min. O "C max. 60 "C Relative humidity Relative humidity Relative humidity Relative humidity Vibrations Vibrations Vibration resistance during operation acc. to IEC 60068- 2-6 Shock testing Shock testing Shock during operation EEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm, 9 Hz to 500 Hz: 9.8 m/s" (with SSD or CPast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s" (with hard disk) Shock testing Shock during operation EEC 60068-2-7; 150 m/s", 11 ms (without hard disk); 50 m/s", 30 ms (with hard disk) Derating system pre-installed operating system Without operating system Windows 7 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 Height of S | | 165, Optional, only war manacount |
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| min. | | |
| • max. Ambient temperature during storage/transportation • min. • amax. 60 °C Relative humidity • Condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068- 2-6 • 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; 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 Ves: Optional pre-installed operating system • Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit /64-bit, Windows 10 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 Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights | | 0.0℃ |
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| 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 Windows 7 Utlimate (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 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 76 mm Weights | | |
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| 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 Yes; Ultimate 64 bit 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 529 mm Height of housing front 331 mm Mounting cutout, width 513 mm Mounting cutout, height 76 mm Weights | Vibrations | |
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| Derating systems Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10 Yes; Optional | 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, height Overall depth 76 mm Weights | Shock load during operation | |
| ## E/P 32-bit / 64-bit, Windows 10 Without operating system | 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 | Windows 7 | Yes; Ultimate 64 bit |
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| 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: 8/23/2021 🖸