SIEMENS

Data sheet

6AV7241-1DA03-0FA2

SIMATIC IPC 477E 19" Touch (1366 x 768); with front USB; 4 USB (back), Ethernet (10/100/1000); Celeron G3902E; 3x Gbit Ethernet (IE/PN); 4 GB without RS 232/RS485; without PCIe; Win Embedded Standard 7 P SP1, MUI, 64-bit, multi-touch; Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 110/230 V AC industrial power supply unit with NAMUR; power supply cable Europe;

| General information | |
|---|---|
| Product type designation | IPC477E |
| Display | |
| Design of display | 19" TFT touch |
| Screen diagonal | 18.5 in |
| Resolution (pixels) | |
| Horizontal image resolution | 1 366 Pixel |
| Vertical image resolution | 768 Pixel |
| Backlighting | |
| MTBF backlighting (at 25 °C) | 50 000 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 | |
| • 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 |
| 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 | V |
| | Yes |
| Interrunts/diagnostics/status information | Yes |
| Interrupts/diagnostics/status information Bus diagnostics | Yes |

| Literate I Frances | |
|---|---|
| Integrated Functions Monitoring functions | |
| Temperature monitoring | Yes |
| Watchdog | Yes |
| • | No |
| • Fan | |
| Monitoring function via network | Optional |
| EMC | |
| Interference immunity against discharge of static electric | • |
| Interference immunity against discharge of static electricity | ±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 electroma | agnetic fields |
| 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 |
| KC approval | 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 |

| Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) | |
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| Thippoint real regional (class retty) | |
| Ambient conditions | |
| | |
| Ambient temperature during operation | |
| Ambient temperature during operation 0 °C | C to 45 °C |
| Ambient temperature during storage/transportation | |
| ● min20 ° | °C |
| • max. 60 °C | С |
| Relative humidity | |
| , and the second | ted according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% 5 °C (no condensation) |
| Vibrations | |
| IEC 60068-2-6 (with | 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² h SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 4.9 m/s² (hard disk) |
| Shock testing | |
| 5 1 | 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 (with hard disk) |
| Operating systems | |
| pre-installed operating system Wind | dows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded ndard 7 E/P 32-bit / 64-bit, Windows 10 |
| without operating system Yes; | ; Optional |
| pre-installed operating system | |
| • Windows 7 Yes; | ; Ultimate 64 bit |
| • Windows 10 Enterprise Yes; | ; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI |
| Software | |
| | ionally with pre-installed SIMATIC WinCC RT Advanced / ware Controller CPU 1500S software bundle |
| Dimensions | |
| Width of the housing front 483 | mm |
| Height of housing front 337 | mm |
| Mounting cutout, width 465 | mm |
| Mounting cutout, height 319 | mm |
| Overall depth 76 m | nm |

Weights Weight, approx. 8.4 kg 12/14/2020 last modified: