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## Data sheet 6AV7240-7BM44-0PA0

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|---|---|
| | *** no longer available *** SIMATIC IPC 477D, 15" Touch display; 4 USB (back)+1 USB (front), Ethernet (10/100/1000); Core i7-3517UE; 2x Gbit Ethernet (IE/PN); PROFIBUS DP 12; 8 GB with NVRAM; 2x RS-232 and 1x PCIE; WIN Embedded Standard 7, 32-bit Replaceable without drive; SSD 240 GB Standard (MLC); Without SIMATIC software; 24 V DC industrial power supply |
| **General information** | |
| Product type designation | IPC477D |
| **Display** | |
| Design of display | 15" TFT touch |
| Screen diagonal | 15 in |
| Resolution (pixels) | |
| ● Horizontal image resolution | 1 280 pixel |
| ● Vertical image resolution | 800 pixel |
| Backlighting | |
| ● MTBF backlighting (at 25 °C) | 80 000 h |
| **Control elements** | |
| Input device | |
| ● Mouse, at front | Front USB 2.0 (500mA) |
| Keyboard | |
| ● 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 | 10 ms |
| **Power loss** | |
| In full configuration | 24 V DC: max. 68 W, PCIe PCB additionally 5 W |
| **Processor** | |
| Processor type | Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE (2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70 (2.80) GHz, 4 MB Cache, iAMT) |
| **Graphic** | |
| Graphics controller | Intel HD graphics controller |
| **Drives** | |
| Optical drives | Optional: DVD±R±RW combi drive; on rear, can be operated from side |
| Hard disk | 2.5" SATA hard disk, at least 320 GB |
| SSD | Yes; 1x 240 GB SSD, 1x 480 GB SSD |
| **Storage** | |
| Type of memory | DDR3-SDRAM |
| Main memory | 2 / 4 / 8 GB; ECC optional |
| Capacity of main memory, max. | 8 Gbyte |


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| **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 | |
| ● Number of PCI slots | 1; Optional |
| ● Number of compact flash slots | 2; CFast |
| **Interfaces** | |
| PROFIBUS/MPI | optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611 |
| Number of PROFINET interfaces | 3; 3 ports (IRT, with switch, optional) |
| USB port | 4x USB 3.0 high speed/high current |
| Video interfaces | |
| ● Graphics interface | DVI VGA / DVI integrated |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | Onboard, 2x 10/100 Mbit, RJ45, no plug-in card necessary |
| **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 electricity | ± 6 KV contact discharge at the front in accordance with IEC 61000-4-2; ±4 kV, housing contact discharge at the back in accordance with IEC 61000-4-2; ± 8 kV air discharge in accordance with IEC 61000-4-2 |
| Interference immunity against high-frequency electromagnetic fields | |
| ● Interference immunity against high frequency radiation | 10 V/m for 80 - 1 000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6 |
| Interference immunity to cable-borne interference | |
| ● Interference immunity on supply cables | ±2 kV (to IEC 1000-4-4; 1995; burst); ±1 kV (to IEC 1000-4-5; 1995; surge symm); ±2 kV (to IEC 1000-4-5; 1995; surge asymm) |
| ● Interference immunity on signal cables >30m | ±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±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; CE marking / EC Declaration of Conformity |
| UL approval | Yes |
| ● UL 508 | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | 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 |
| ● ATEX Zone 22 | Yes; Optional |


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| ● IECEx Zone 2 | Yes; Optional |
| ● cULus Class I Zone 2, Division 2 | Yes |
| Marine approval | |
| ● Germanischer Lloyd (GL) | Yes |
| ● American Bureau of Shipping (ABS) | Yes |
| ● Bureau Veritas (BV) | Yes |
| ● Det Norske Veritas (DNV) | Yes |
| ● Korean Register of Shipping (KRS) | Yes |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● Nippon Kaiji Kyokai (Class NK) | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 45 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| 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 | 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 | Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI |
| without operating system | Yes; Optional |
| pre-installed operating system | |
| ● Windows 7 | Yes; Ultimate 32 bit or 64 bit |
| **Dimensions** | |
| Width of the housing front | 415 mm |
| Height of housing front | 310 mm |
| Mounting cutout, width | 396 mm |
| Mounting cutout, height | 291 mm |
| mounting depth | 76 mm |
| ● additional mounting depth (optical drive) | 26 mm |
| **Weights** | |
| Weight, approx. | 4.9 kg |
| **Approvals / Certificates** | |

**General Product Approval**

Miscellaneous | Manufacturer Declaration









**General Product Approval** | **Maritime application**




Manufacturer Declaration | China RoHS








**Maritime application** | **Dangerous goods**


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| | KR (Korean Register of Shipping) | Test Summary Report UN 38.3 | Dangerous goods information | Dangerous goods information | Test Summary Report UN 38.3 |

**Environment**

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|---|---|
| Environmental Confirmations | Environmental Confirmations |

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