## **SIEMENS**

## **Data sheet**

6AV7241-5DB15-0FA0

SIMATIC IPC 477E 19" Touch (1366 x 768); with front USB; 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; 1x PCIe (x4); Windows 10 Enterprise 2019 LTSC (64-bit), MUI (en,de,fr,it,es) for Celeron, i3 and i5, Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

| Consuel information                                       |  |
|---|--|
| General information                                       | IDO INTE   |
| Product type designation                                  | IPC477E  |
| Display   |  |
| Design of display   | 19" TFT touch  |
| Screen diagonal   | 18.5 in  |
| Resolution (pixels)                                       |  |
| <ul> <li>Horizontal image resolution</li> </ul>           | 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   |  |
| <ul> <li>Design as touch screen</li> </ul>                | 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  | J., , . , . , . , . , . , . , .  |
| Rated value 50 Hz   | Yes  |
| Rated value 60 Hz   | Yes  |
| Mains buffering   |  |
| Mains/voltage failure stored energy time                  | 20 ms  |
| Power loss  | 25   |
| In full configuration                                     | 24 V DC: max. 65 W, PCle APCB additionally 5 W   |
| Processor   | 24 V BO. Max. 00 VV, I Ole Al OB additionally 5 VV   |
| 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                          | 10 Object  |
|   | 512 khuta: 129 KD can be stored in the huffer time: entianal   |
| 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 sound water and Au states 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  |
| nterfaces  | 0. 0. Filtering of (DMF)  |
| 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   | 2v DianlayDart  |
| Graphics interface  Industrial Ethernet                            | 2x DisplayPort  |
| Industrial Ethernet interface                                      | 3x Ethernet (RJ45)  |
| — 100 Mbps   | Yes   |
| — 1000 Mbps  | Yes   |
| nterrupts/diagnostics/status information                           | 100   |
| Bus diagnostics  | Yes   |
| ntegrated Functions  | 166   |
| Monitoring functions   |   |
| Temperature monitoring   | Yes   |
| Watchdog   | Yes   |
| • Fan  | No  |
| Monitoring function via network                                    | Optional  |
| EMC  | Cp. Co. Co.   |
| 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 | 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 |
| <ul> <li>Interference immunity on signal cables &gt;30m</li> </ul> | ±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   |
| • Interference infinitintly on signal casies 1 3011                | 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   |
| • IECEx Zone 2   | Yes; Optional, only with Multitouch   |

| • cULus Class I Zone 2, Division 2   | Yes; Optional, only with Multitouch   |
|--|---|
| 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 $^{\circ}\text{C}$ (no condensation)  |
| Vibrations   |   |
| <ul> <li>Vibration resistance during operation acc. to IEC 60068-<br/>2-6</li> </ul> | 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/s $^2$ , 11 ms (without hard disk); 50 m/s $^2$ , 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   | Yes; Optional   |
| pre-installed operating system   |   |
| <ul><li>Windows 7</li></ul>  | Yes; Ultimate 64 bit  |
| <ul> <li>Windows 10 Enterprise</li> </ul>  | 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   | 483 mm  |
| Height of housing front  | 337 mm  |
| Mounting cutout, width   | 465 mm  |
| Mounting cutout, height  | 319 mm  |
| Overall depth  | 76 mm   |
| Weights  |   |
| Weight, approx.  | 8.4 kg  |

6/25/2021

6AV72415DB150FA0 Page 3/3

last modified: