## **SIEMENS**

## Data sheet 6AV7241-5JB00-0GA0

SIMATIC IPC 477E 15" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 8 GB; without RS 232/RS485; without PCIe; without operating system; Without replaceable mass storage; 480 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

Product type designation IPC477E  Display  Design of display 15" TFT multi-touch  Screen diagonal 15.6 in  Resolution (pixels)  • Horizontal image resolution 1366 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 • alphanumeric keyboard  Touch operation • Design as multi-touch screen Yes; Projective-capacitive  Installation type/mounting  Mounting  Mounting  For horizontal and vertical mounting
Design of display  15" TFT multi-touch Screen diagonal 15.6 in  Resolution (pixels)  • Horizontal image resolution • Vertical image resolution 1 366 pixel  • Vertical image resolution  Backlighting • MTBF backlighting (at 25 °C)  50 000 h  Control elements  Input device • Mouse, at front  No  Keyboard fonts • Function keys • alphanumeric keyboard  Touch operation • Design as multi-touch screen  Installation type/mounting
Screen diagonal 15.6 in  Resolution (pixels)  • Horizontal image resolution 1366 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 multi-touch screen Yes; Projective-capacitive  Installation type/mounting
Resolution (pixels)  • Horizontal image resolution  • Vertical image resolution  Backlighting  • MTBF backlighting (at 25 °C)  Control elements  Input device  • Mouse, at front  Keyboard fonts  • Function keys  • alphanumeric keyboard  Touch operation  • Design as multi-touch screen  Installation type/mounting
Horizontal image resolution  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  alphanumeric keyboard  Touch operation  Design as multi-touch screen  Installation type/mounting  1 366 pixel  1 367 pixel  1 368 pixel
Vertical image resolution  Backlighting  MTBF backlighting (at 25 °C)  50 000 h  Control elements  Input device  Mouse, at front  No  Keyboard fonts  Function keys  alphanumeric keyboard  Touch operation  Design as multi-touch screen  Installation type/mounting
Backlighting  ● MTBF backlighting (at 25 °C)  50 000 h  Control elements  Input device  ● Mouse, at front  No  Keyboard fonts  ● Function keys  ● alphanumeric keyboard  Touch operation  ● Design as multi-touch screen  Installation type/mounting
MTBF backlighting (at 25 °C)  50 000 h  Control elements  Input device  Mouse, at front  No  Keyboard fonts  Function keys  Input device  No  Function keys  Function keys  Input device  No  Function keys  Function keys  Input device  No  Function keys  Function keys  Input device  No  No  Function keys  Function keys  No  Posign as multi-touch screen  Yes; Projective-capacitive  Installation type/mounting
Input device  • Mouse, at front  No  Keyboard fonts  • Function keys • alphanumeric keyboard  Touch operation • Design as multi-touch screen  Installation type/mounting
Input device  • Mouse, at front  No  Keyboard fonts  • Function keys  • alphanumeric keyboard  No  Touch operation  • Design as multi-touch screen  Installation type/mounting
Mouse, at front     No     Keyboard fonts     Function keys     No     alphanumeric keyboard     No  Touch operation     Design as multi-touch screen  Installation type/mounting  No  No  Yes; Projective-capacitive
Keyboard fonts  • Function keys • alphanumeric keyboard No  Touch operation • Design as multi-touch screen  Installation type/mounting
Function keys     No     alphanumeric keyboard     No  Touch operation     Design as multi-touch screen  Installation type/mounting  No  Yes; Projective-capacitive
<ul> <li>alphanumeric keyboard</li> <li>Touch operation</li> <li>Design as multi-touch screen</li> <li>Installation type/mounting</li> </ul> No Yes; Projective-capacitive
Touch operation  • Design as multi-touch screen  Yes; Projective-capacitive  Installation type/mounting
Design as multi-touch screen     Yes; Projective-capacitive  Installation type/mounting
Installation type/mounting
Mounting For horizontal and vertical mounting
industrial and ventical 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

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
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	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.	0° 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- 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/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	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	398 mm
Height of housing front	257 mm
Mounting cutout, width	382 mm
Mounting cutout, height	241 mm
Overall depth	76 mm
Weights	
Weight, approx.	5.2 kg

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