## **SIEMENS**



## Data sheet 6AV7251-5CC04-0FA0

SIMATIC IPC477E PRO fully enclosed IP65; 15" Multitouch (1366 X 768); suitable for pedestal/ extension components (flange at bottom); 4USB (back); w/o USB (front); Ethernet (10/100/1000); Core i5-6442EQ; 3x Gbit Ethernet (IE/PN); 16 GB; without RS 232/RS485; without PCIe; Windows7 Ultimate SP1, 64-bit, MUI (de, en, es, fr, it); Without replaceable mass storage; 240 GB solid-state drive SATA Without SIMATIC software 24 V DC industrial power supply

General information	
Product type designation	IPC477E PRO
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	15 in
Display width	344.2 mm
Display height	193.5 mm
Resolution (pixels)	
Horizontal image resolution	1 366 Pixel
<ul> <li>Vertical image resolution</li> </ul>	768 Pixel
Control elements	
Touch operation	
Design as touch screen	Yes; Projective-capacitive
nstallation type/mounting	
Mounting	For mounting on stand or supporting bracket
Design	Panel PC on pedestal or supporting arm
Support arm mounting	No
Stand mounting	Yes; Prepared for pedestal and extension components
Mounting in portrait format possible	No
maximum permissible installation angle +/-	±45 °
Supply voltage	
Type of supply voltage	24 V DC
Line frequency	
● Rated value 50 Hz	Yes
Rated value 60 Hz	Yes
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)

Graphic		
Graphics controller	Intel HD graphics controller	
Crapines controller	into 115 grapinos controllo.	
Drives		
Optical drives	possible as external drive via USB	
SSD	Yes; 1x 128 GB, 1x 240 GB SSD, 1x 480 GB SSD	
Memory		
Type of memory	DDR4 SO-DIMM	
Main memory	4 GB to 16 GB, ECC optional	
Capacity of main memory, max.	16 Gbyte	
Data areas and their retentivity		
Data areas and their retentivity  Retentive data area (incl. timers, counters, flags),	512 kbyte; 128 KB can be stored in the buffer time	
max.	312 kbyte, 120 kb can be stored in the buller time	
Hardware configuration		
Slots		
<ul><li>Number of PCI slots</li></ul>	0; Different to the built-in unit	
<ul> <li>Number of PCI slots</li> </ul>	0; Different to the built-in unit	
<ul> <li>Number of compact flash slots</li> </ul>	1; CFast	
Interfaces		
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)	
USB port	4x USB 3.0 onboard (rear)	
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	±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air
static electricity	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	
<ul> <li>Interference immunity to magnetic fields at 50 Hz</li> </ul>	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	
IP65 (all-round)	Yes; IP65 fully enclosed
IP (at the front)	IP65
IP (at the front) IP (rear)	IP65
IP (rear)	
IP (rear) Standards, approvals, certificates	IP65
IP (rear)  Standards, approvals, certificates CE mark	Yes; CE marking / EC Declaration of Conformity
IP (rear)  Standards, approvals, certificates  CE mark  UL approval	Yes; CE marking / EC Declaration of Conformity Yes
IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  cULus  RCM (formerly C-TICK)	Yes; CE marking / EC Declaration of Conformity Yes Yes
IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  CULus  RCM (formerly C-TICK)  KC approval	Yes; CE marking / EC Declaration of Conformity Yes Yes Yes Yes Yes Yes
IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  CULus  RCM (formerly C-TICK)  KC approval  EMC	Yes; CE marking / EC Declaration of Conformity Yes Yes Yes Yes Yes
IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  cULus  RCM (formerly C-TICK)  KC approval  EMC  Marine approval	Yes; CE marking / EC Declaration of Conformity Yes Yes Yes Yes Yes Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  CULus  RCM (formerly C-TICK)  KC approval  EMC  Marine approval  • Germanischer Lloyd (GL)	Yes; CE marking / EC Declaration of Conformity Yes Yes Yes Yes Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A
IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  cULus  RCM (formerly C-TICK)  KC approval  EMC  Marine approval	Yes; CE marking / EC Declaration of Conformity Yes Yes Yes Yes Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A Yes Yes
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IP (rear)  Standards, approvals, certificates  CE mark  UL approval  • UL 508  cULus  RCM (formerly C-TICK)  KC approval  EMC  Marine approval  • Germanischer Lloyd (GL)  • American Bureau of Shipping (ABS)  • Det Norske Veritas (DNV)  • Korean Register of Shipping (KRS)  • Lloyds Register of Shipping (LRS)	Yes; CE marking / EC Declaration of Conformity Yes Yes Yes Yes Yes CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A  Yes Yes Yes Yes Yes

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: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)
Vibrations	
<ul> <li>Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
Shock load during operation	Tested according to IEC 60068-2-27, IEC 60068-2-29: half-sine: 50 m/s² (5 g), 30 ms, 100 shocks per axis
Operating systems	
Operating system	Windows 7 Ultimate (Multi-Language) 64-bit, Windows Embedded Standard 7 E/P 32-bit / 64-bit, Windows 10
pre-installed operating system	Yes
without operating system	Yes; Optional
pre-installed operating system	
• Windows 7	Yes; Ultimate 64 bit
<ul> <li>Windows 10 Enterprise</li> </ul>	Yes; Windows 10 Enterprise 2016 LTSB, 64 bit, MUI
Dimensions	
Width of the housing front	396 mm
Height of housing front	255 mm; Without basic adapter
Weights	
Panel PC in central design, approx.	6.8 kg
last modified:	08/08/2019