SIEMENS



Data sheet 6AV7251-3BA01-0DA0

SIMATIC IPC477E PRO fully enclosed IP65; 15" Multitouch (1366 X 768); suitable for support arm w/o extension components (flange at top); 4USB (back); w/o USB (front); Ethernet (10/100/1000); Core i3-6102E; 3x Gbit Ethernet (IE/PN); 4 GB; without RS 232/RS485; without PCIe; Win Embedded Standard 7 SP1, English, 32-bit, Without replaceable mass storage; 128 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
 Vertical image resolution 	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	Yes; Suitable for support arm without extension components
Stand mounting	No
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		
Number of PCI slots	0; Different to the built-in unit	
 Number of PCI slots 	0; Different to the built-in unit	
 Number of compact flash slots 	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 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	10 V/m, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m,	
radiation	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 	100 A/m; to IEC 61000-4-8	
Hz		
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 (rear)	IP65	
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	
EMC	CE, EN 61000-6-4; CISPR 22 Class A; FCC Class A	
Marine approval		
 Germanischer Lloyd (GL) 	Yes	
 American Bureau of Shipping (ABS) 	Yes	
 Det Norske Veritas (DNV) 	Yes	
 Korean Register of Shipping (KRS) 	Yes	
 Lloyds Register of Shipping (LRS) 	Yes	
Ambient conditions		
Ambient temperature during operation		
• Ambient temperature during energtion	5 to +45°C	
 Ambient temperature during operation 		

• min.	-20 °C
	60 °C
• max.	00 0
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	
 Vibration resistance during operation acc. to IEC 60068-2-6 	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
Windows 10 Enterprise	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
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