SIEMENS

Data sheet 6AV7241-3JG02-0FK0

SIMATIC IPC 477E 15" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); Core i3-6102E; 3x Gbit Ethernet (IE/PN); 8 GB and NVRAM; without RS 232/RS485; without PCIe; Win Embedded Standard 7 SP1, English, 64-bit; Without replaceable mass storage; 240 GB solid-state drive SATA CPU 1507S/ WinCC RT Advanced V15, 2048PT; WinCC Recipes + Logging; 24 V DC industrial power supply

General information		
Product type designation	IPC477E	
Display		
Design of display	15" TFT multi-touch	
Screen diagonal	15.6 in	
Resolution (pixels)		
Horizontal image resolution	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		
 Design as multi-touch screen 	Yes; Projective-capacitive	
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	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
ardware configuration	
Slots	
• 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	
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	
Graphics interface	2x DisplayPort
Industrial Ethernet	
 Industrial Ethernet interface 	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
terrupts/diagnostics/status information	
Bus diagnostics	Yes
ntegrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
• Fan	No
Monitoring function via network	Optional
MC	
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 electromagnetic fie	elds
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	
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
egree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
tandards, approvals, certificates	
CE mark	Vac
	Yes
CSA approval	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
DOLL (C TIOL()	Yes
RCM (formerly C-TICK)	V
KC approval	Yes
·	Yes
KC approval	
KC approval EAC (formerly Gost-R)	Yes

• 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	
 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 (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	
Windows 7	Yes; Ultimate 64 bit
 Windows 10 Enterprise 	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

last modified:

1/31/2021