SIEMENS

Data sheet

6AV7241-7KC08-0GA0

SIMATIC IPC 477E 19" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); XEON E3-1505L; 3x Gbit Ethernet (IE/PN); 16 GB; without RS 232/RS485; without PCle; Windows 10 IoT Enterprise 2016 LTSB (64-bit) for Xeon; Without replaceable mass storage; 480 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

Product type designation Display Design of display Screen diagonal 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 Input device Function keys No
Design of display Screen diagonal Resolution (pixels) Horizontal image resolution Vertical image resolution Backlighting MTBF backlighting (at 25 °C) Control elements Input device Mouse, at front No Keyboard fonts
Screen diagonal Resolution (pixels) Horizontal image resolution Vertical image resolution Backlighting MTBF backlighting (at 25 °C) Control elements Input device Mouse, at front Keyboard fonts
Resolution (pixels) • Horizontal image resolution • Vertical image resolution 768 pixel Backlighting • MTBF backlighting (at 25 °C) Control elements Input device • Mouse, at front Keyboard fonts
Horizontal image resolution Vertical image resolution Backlighting MTBF backlighting (at 25 °C) Control elements Input device Mouse, at front Keyboard fonts 1 366 pixel 768 pixel 50 000 h No No
Vertical image resolution Backlighting MTBF backlighting (at 25 °C) 50 000 h Control elements Input device Mouse, at front No Keyboard fonts
Backlighting • MTBF backlighting (at 25 °C) 50 000 h Control elements Input device • Mouse, at front No Keyboard fonts
MTBF backlighting (at 25 °C) Control elements Input device Mouse, at front Keyboard fonts No
Control elements Input device • Mouse, at front No Keyboard fonts
Input device • Mouse, at front No Keyboard fonts
Mouse, at front No Keyboard fonts
Keyboard fonts
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Function keys No
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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. 82 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 soul rate in -) Au slat for 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
iterfaces 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	William P. Com (No 2027 1227 100), colocidado in tilo 2100
Graphics interface	2x DisplayPort
Industrial Ethernet	
Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
nterrupts/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 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	
 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
a Interference immunity an eignel cables > 20m	
Interference immunity on signal cables >30m Interference immunity on signal cables < 30m	±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4
 Interference immunity on signal cables < 30m 	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
	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/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	
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	464 mm
Height of housing front	294 mm
Mounting cutout, width	448 mm
Mounting cutout, height	278 mm
Overall depth	76 mm
Weights	
Weight, approx.	6.6 kg

1/31/2021

last modified: