

Data sheet 6AV7241-3JA40-0GA0

SIMATIC IPC 477E 15" Multitouch (1366 x 768); 4 USB (back), Ethernet (10/100/1000); Core i3-6102E; 3x Gbit Ethernet (IE/PN); 4 GB 2x RS232/RS485; 1x PCIe (x4); without operating system; Without replaceable mass storage; 480 GB solid-state drive SATA Without SIMATIC software; 24 V DC industrial power supply

Design of display 15" TFT multi-touch 15.6 in	Display	
Resolution (pixels) Horizontal image resolution Vertical image resolution Racklighting MTBF backlighting (at 25 °C) Control elements Input device Mouse, at front Reyboard fonts Function keys Aphanumeric keyboard Design as multi-touch screen Installation type/mounting Mounting Panel PC, built-in unit central design distributed design Mounting in portrait format possible Supply voltage Type of of sup	Design of display	15" TFT multi-touch
Horizontal image resolution • Vertical image resolution 768 pixel Backlighting • MTBF backlighting (at 25 °C) 50 000 h Control elements Input device • Mouse, at front Keyboard fonts • Function keys • Alphanumeric keyboard Touch operation • Design as multi-louch screen Installation type/mounting Mounting Design Panel PC, built-in unit central design central design Abunting Per horizontal and vertical mounting Per horizontal	Screen diagonal	15.6 in
e Vertical image resolution Backlighting • MTBF backlighting (at 25 °C) Control elements Input device • Mouse, at front Keyboard fonts • Function keys • June of the separation of the	Resolution (pixels)	
Backlighting NTBF backlighting (at 25 °C) Control elements Input device Nouse, at front Function keys Input device No No Keyboard fonts Function keys Input application theys Input device For horizontal and vertical mounting Panel PC, built-in unit gentral design Mounting Panel PC, built-in unit gentral design Mounting in portrait format possible Supply voltage Line frequency Rated value 50 Hz Rated value 60 Hz Rated value 60 Hz Rated value 60 Hz Processor Processor type Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/4T, 1.9 GHz, 6 MB Cache, i/MT); Chipset Intel HD graphics controller Drives Hard disk 2.5" SATA ≥ 320 GB Memory Type of memory All nis Son Ferner DRA 24 V BC BC DRA 25 BB CC optional PDRA 2400 SO-DIMM All nis Controller Drives Hard disk 2.5" SATA ≥ 320 GB Memory Type of memory All nis GB, ECC optional Capacity of main memory, max. Data areas and their retentivity Redentive data area (incl. timers, counters, flags), max. 512 kbyle; 128 KB can be stored in the buffer time; optional	 Horizontal image resolution 	1 366 pixel
	 Vertical image resolution 	768 pixel
Control elements	Backlighting	
Input device • Mouse, at front No Keyboard forts • Function keys • alphanumeric keyboard Touch operation • Design as multi-fouch screen Installation typofmounting Mounting Design Central design Gistributed design Mounting in portrait format possible Supply voltage Type of supply voltage • Rated value 50 Hz • Rated value 60 Hz • Rated value 60 Hz Processor Processor type Processor type Celeron G3902 (2C/27, 1.6 GHz, 2 MB Cache); Core i3-6102E (2C/47, 1.9 GHz, 3 MB Cache); Core i5-6102E (2C	 MTBF backlighting (at 25 °C) 	50 000 h
Mouse, at front Keyboard fonts Function keys Installation type/mounting Mounting Design as multi-touch screen For horizontal and vertical mounting Mounting Mounting Mounting Mounting For horizontal and vertical mounting Panel PC, built-in unit gentral design No Mounting in portrait format possible Supply voltage Line frequency Rated value 50 Hz Rated value 60 Hz Mains buffering Mains/voltage failure stored energy time Power loss In full configuration Processor Processor type Celeron G3902 (2C/2T, 1.6 GHz, 2 MB Cache); Core i5-6142E (2C/4T, 1.9 GHz, 3 MB Cache); Core i5-6442EC (4C/4T, 1.9 (2.7) GHz, 6 MB Cache, IAMT) Chipset Graphic Graphic Graphics controller Drives Hard disk SSD Memory Type of memory Main memory 4 / 8 / 16 GB, ECC optional 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	Control elements	
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• Function keys • alphanumeric keyboard No Touch operation • Design as multi-touch screen Yes; Projective-capacitive	Mouse, at front	No
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Touch operation	 Function keys 	No
Design as multi-touch screen Installation type/mounting Mounting For horizontal and vertical mounting Panel PC, built-in unit central design	 alphanumeric keyboard 	No
Mounting	Touch operation	
Mounting Design Panel PC, built-in unit central design Avertical design Mounting in portrait format possible Supply voltage Type of supply	Design as multi-touch screen	Yes; Projective-capacitive
Design Panel PC, built-in unit central design Yes distributed design No Mounting in portrait format possible Yes Supply voltage Type of supply yoltage 100/240 V AC (autorange) 50/60 Hz; optional 24 V DC Line frequency • Rated value 50 Hz Yes • Rated value 60 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 Vpe 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 Intel C236 / Intel H110 Drives Intel HD graphics controller Intel HD graphics controller Drives Last A ≥ 20 GB SSD Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM 4 / 8 / 16 GB, ECC optional 2 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 /	Installation type/mounting	
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Line frequency • Rated value 50 Hz • Rated value 60 Hz • Rated value 60 Hz Mains buffering • Mains/voltage failure stored energy time 20 ms Power loss In full configuration 24 ∨ DC: max. 88 W, 110 230 ∨ 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 i6-6442EQ (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 Graphic Graphic 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 Main memory 4 / 8 / 16 GB, ECC optional Capacity of main memory, max. 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	Supply voltage	
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Power loss In full configuration 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 Graphic Graphics controller Intel HD graphics controller Drives Hard disk 2.5" SATA ≥ 320 GB Yes; 128 / 240 / 480 GB Memory Type of memory Main memory A / 8 / 16 GB, ECC optional Capacity of main memory, max. 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	 Rated value 60 Hz 	Yes
Processor	Mains buffering	
In full configuration	 Mains/voltage failure stored energy time 	20 ms
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 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 A / 8 / 16 GB, ECC optional Capacity of main memory, max. 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	Power loss	
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Graphic Graphics controller Drives Hard disk SSD Yes; 128 / 240 / 480 GB Memory Type of memory Main memory Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Intel HD graphics controller DBR4 ≥ 320 GB Yes; 128 / 240 / 480 GB DDR4-2400 SO-DIMM 4 / 8 / 16 GB, ECC optional 16 Gbyte Data areas and their retentivity S12 kbyte; 128 KB can be stored in the buffer time; optional	,	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,
Graphics controller Intel HD graphics controller Drives 2.5" SATA ≥ 320 GB Yes; 128 / 240 / 480 GB Memory DDR4-2400 SO-DIMM 4 / 8 / 16 GB, ECC optional Capacity of main memory, max. Data areas and their retentivity Data areas (incl. timers, counters, flags), max. Find HD graphics controller DBR4-2300 GB Yes; 128 / 240 / 480 GB Memory 4 / 8 / 16 GB, ECC optional Capacity of main memory, max. 16 Gbyte Data areas and their retentivity State of the buffer time; optional	•	Intel C236 / Intel H110
Drives Hard disk 2.5" SATA ≥ 320 GB SSD Yes; 128 / 240 / 480 GB 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		
Hard disk 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. 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	•	Intel HD graphics controller
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		
Type of memory Main memory Capacity of main memory, max. DDR4-2400 SO-DIMM 4 / 8 / 16 GB, ECC optional 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		
Type of memory Main memory Capacity of main memory, max. DDR4-2400 SO-DIMM 4 / 8 / 16 GB, ECC optional 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	SSD	Yes; 128 / 240 / 480 GB
Main memory Capacity of main memory, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. 4 / 8 / 16 GB, ECC optional 16 Gbyte 512 kbyte; 128 KB can be stored in the buffer time; optional	Memory	
Capacity of main memory, max. 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	Type of memory	DDR4-2400 SO-DIMM
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	Main memory	4 / 8 / 16 GB, ECC optional
Retentive data area (incl. timers, counters, flags), max. 512 kbyte; 128 KB can be stored in the buffer time; optional	Capacity of main memory, max.	16 Gbyte
	Data areas and their retentivity	
Hardware configuration	Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
	Hardware 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
Interfaces	i, or ast
	0.0.50
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)
USB port	4x USB 3.0
Connection for keyboard/mouse serial interface	USB / USB
Video interfaces	Without / 2x COM (RS 232 / 422 / 485), selectable in the BIOS
Graphics interface	2x DisplayPort
Industrial Ethernet	ZA Displayi oit
Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
	1 05
Integrated Functions	
Monitoring functions	Voc
Temperature monitoring Watchdog	Yes Yes
Watchdog Fan	Yes No
Monitoring function via network	Optional
EMC	φιωτιαι
Interference immunity against discharge of static electricity	LG kV contact discharge and to IFC 61000 4 2: 19 kV sir discharge and
 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 electromagneti	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Interference immunity against high frequency	10 V/m, 80 2 000 MHz, 80 % AM acc. to IEC 61000-4-3; 3 V/m, 2
radiation	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	5 1000 T. 1, 20.104, 10.11gu.
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
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (Class NK) 	Yes
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	0 °C to 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 °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/s 2 (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s 2 (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:	2/28/2023 🖸