

SIMATIC IPC PX-39A 15" multi-touch (1920 x 1080); Intel(R) UHD graphics onboard 4 x USB 3.2 Ethernet (10/100/1000); PCIe (optional); Intel Xeon W-1155MLE (1.9/4.4 GHz, 6C/12T); 32 GB with ECC and NVRAM (M.2 module); 1st mass storage: M.2 SSD 256 GB Eco; without 2nd mass storage; Windows 10 IoT Enterprise 2021 LTSC for Celeron, Xeon W-1155MLE, Xeon W-1155MLE; without option 1; USB restore stick with D&D and software image (if selected) 110/230 V AC industrial power supply unit with NAMUR; without power supply cord;

General information	
Product type designation	SIMATIC IPC PX-39A
Display	
Design of display	15" TFT multi-touch
Screen diagonal	15.6 in
Resolution (pixels)	
• Horizontal image resolution	1 920 pixel
• Vertical image resolution	1 080 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
Rated value (DC)	24 V
Rated value (AC)	240 V
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	Intel® Celeron 6600HLE (2.1 GHz, 2C/2T) Intel® Xeon W-1155MLE (1.8/3.1 GHz, 4C/8T) Intel® Xeon W-1155MLE (1.9/4.4 GHz, 6C/12T) Intel® Xeon W-11865MLE (1.5/4.5 GHz, 8C/16T)
Chipset	Intel® RM590E
Graphic	
Graphics controller	Intel® UHD Graphics 16 EUs (for Intel® Celeron® 6600HLE and Intel® Xeon® W-1155MLE) / Intel® UHD Graphics 32 EUs (for Intel® Xeon® W-1155MLE and Intel® Xeon® W-11865MLE)
Drives	
Hard disk	M.2 SSD ≥ 240 GB
SSD	Yes; ≥ 240 GB optional, RAID1 optional

Memory	
Type of memory	DDR4-3200 SO-DIMM
Main memory	4 / 8 / 16 / 32 GB; ECC optional
Capacity of main memory, max.	32 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
Hardware configuration	
Slots	
• free slots	1x PCIe; optional: 1x PCIe (x4), with card retainer
• Number of PCI slots	1; Optional
• Number of compact flash slots	0
Interfaces	
Number of industrial Ethernet interfaces	4; 4x Gigabit Ethernet (IE/PN)
USB port	4x USB 3.2 Gen2
Connection for keyboard/mouse	USB / USB
Video interfaces	
• Graphics interface	2x DisplayPort (DP1.4-capable): maximum 4096 × 2304 / 60 Hz / 36 bit
Industrial Ethernet	
• Industrial Ethernet interface	4x 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 electromagnetic fields	
• Interference immunity against high frequency radiation	10 V/m for 80 ... 2 700 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2.7 to 6 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz to 80 MHz, 80% AM 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 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5, surge
• Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst
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	IEC 61000-6-4, CAN/CSA CISPR 32 class B, FCC class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
CSA approval	Yes
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	No
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes

EAC (formerly Gost-R)	Yes		
FCC	Yes		
BSMI	No; in preparation		
BIS	Yes		
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, CAN/CSA CISPR 32 class A, EN 55032 class B, FCC class A, KN32		
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.	50 °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: operation: temperature 30 °C, relative humidity 85%; permissible range: 0 to 31 °C: 5 - 80%; decreasing linearly to 5 - 25% at 55 °C; storage: temperature 25 °C - 55 °C, relative humidity 95%		
Operation, max.	85 %		
Vibrations			
Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s²		
Shock testing			
Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 11 ms		
Operating systems			
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC, Industrial OS		
without operating system	Yes; Optional		
pre-installed operating system			
Windows 7	No		
Windows 10 Enterprise	Yes; Windows 10 IoT Enterprise 2021 LTSC		
Windows 11	No; in preparation		
Software			
SIMATIC Software	Optional package with SIMATIC WinCC		
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	91.6 mm		
overall depth with depth with PCI expansion	117 mm		
Weights			
Weight, approx.	7 kg		
Classifications			
		Version	Classification
	eClass	14	19-20-01-03
	eClass	12	19-20-01-03
	eClass	9.1	19-20-01-03
	eClass	9	19-20-01-03
	eClass	8	27-24-23-01
	eClass	7.1	27-24-23-01
	eClass	6	27-24-23-01
	ETIM	9	EC001414

ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval



EG-Konf.





UL



RCM

[BIS CRS](#)

[KC](#)

For use in hazardous locations

Marine / Shipping



ATEX



IECEX

[Type Examination Certificate](#)



ABS





DNV

Marine / Shipping

Dangerous goods



LRS

[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)



[Dangerous goods information](#)

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