

SIMATIC IPC RW-528A (rack PC, 19", 2 HU); MB: chipset R680E, 1x 1 Gbit LAN(IE/PN), RJ45; 3x 2.5 Gbit LAN(IE/PN), RJ45; 4x display ports, 4x USB 3.2 Gen. 2 type A, 2x USB 3.2 Gen. 2x2 type C, 2x USB 2.0 type A internal, 2x USB 3.1 type A on the front, 2x M.2(key M) slots, 1x COM (RS232), TPM2.0, audio; 12x status LEDs on the front; Core i7-13700E 16C(8P+8E)/24T, 1.9 (5.1) GHz, iAMT; board 4 slots: 2x PCIe x16 (2x 8L or 1x 16L), 2x PCIe x16 (2x 4L) RAID1, 2x 480 GB SSD [Enterprise] 2.5" SATA without NVMe drives 32 GB DDR5 SDRAM (2x 16 GB) drive support type A (for rack units on the front) 700 W 2x100/240 V AC redundant industrial power supply unit Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i7/i9]; with USB flash drive (restore image; D&D) power supply cord USA

Installation type/mounting	
Mounting	For horizontal installation; prepared for telescopic rails; 19" mounting bracket can be removed externally
Design	Rack PC, 19", 2U
Supply voltage	
Type of supply voltage	100/240 V AC (autorange) 50 / 60 Hz; optional redundant 100/240 V AC
Line frequency	
<ul style="list-style-type: none"> <li>Rated value 50 Hz</li> <li>Rated value 60 Hz</li> </ul>	Yes Yes
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
Processor	
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Drives	
SSD	Yes
Slot for drives	Mounting internally in vibration/shock-absorbing drive cage Type B or mounting on the front in removable trays (hot swap in RAID configurations) in drive cage Type A; mounting internally on the fixed drive cage optional
Memory	
Main memory	8 GB to 128 GB DDR5 4800 SDRAM DIMM
Capacity of main memory, max.	128 Gbyte
Hardware configuration	
Slots	
<ul style="list-style-type: none"> <li>Number of PCI slots</li> <li>Number of PCI slots</li> <li>number of M.2 slots</li> </ul>	2 4 2
Interfaces	
USB port	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear; 2x USB 3.1 Gen. 2 type A internally, e.g. for software dongle with optional interlock; 2x USB 3.1 Gen. 1 type A on the front, can be used with door closed
Connection for keyboard/mouse	USB
serial interface version	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
<ul style="list-style-type: none"> <li>Audio In/Out</li> <li>Microphone In</li> </ul>	Yes Yes
Industrial Ethernet	
<ul style="list-style-type: none"> <li>Industrial Ethernet interface               <ul style="list-style-type: none"> <li>100 Mbps</li> <li>1000 Mbps</li> </ul> </li> <li>number of interfaces (1 000 Mbps)</li> <li>number of interfaces (2 500 Mbps)</li> </ul>	Yes Yes 1 3
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> <li>Temperature monitoring</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• Watchdog</li> <li>• Fan</li> <li>• Monitoring function via network</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Optional</p>
<b>EMC</b>	
Interference immunity against discharge of static electricity	
<ul style="list-style-type: none"> <li>• Interference immunity against discharge of static electricity</li> </ul>	±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	
<ul style="list-style-type: none"> <li>• Interference immunity against high frequency radiation</li> </ul>	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	
<ul style="list-style-type: none"> <li>• Interference immunity on supply cables</li> <li>• Interference immunity on signal cables &gt;30m</li> <li>• Interference immunity on signal cables &lt; 30m</li> </ul>	<p>±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</p> <p>±2 kV acc. to IEC 61000-4-4, burst; length &gt; 30 m; ±2 kV acc. to IEC 61000-4-5, surge; length &gt; 30 m</p> <p>±1 kV acc. to IEC 61000-4-4; burst, length &lt; 3 m</p>
Interference immunity against voltage surge	
<ul style="list-style-type: none"> <li>• asymmetric interference</li> <li>• symmetric interference</li> </ul>	<p>±2 kV acc. to IEC 61000-4-5, surge asymmetric</p> <p>±1 kV acc. to IEC 61000-4-5, surge symmetric</p>
Interference immunity to magnetic fields	
<ul style="list-style-type: none"> <li>• Interference immunity to magnetic fields at 50 Hz</li> </ul>	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
<ul style="list-style-type: none"> <li>• Interference emission via line/AC current cables</li> </ul>	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
<ul style="list-style-type: none"> <li>• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3</li> </ul>	Yes; EN 61000-3-2 Class D; EN 61000-3-3
<b>Degree and class of protection</b>	
IP (at the front)	IP41
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes; For use in industrial areas as well as domestic, business and commercial environments (emitted interference: EN 61000-6-3:2007 +A1:2011, noise immunity: EN 61000-6-2:2005)
UKCA mark	Yes
CSA approval	Yes; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
UL approval	Yes; UL 61010-2-201 Second Edition, File E85972
<ul style="list-style-type: none"> <li>• UL 508</li> </ul>	No
cULus	Yes; UL 61010-2-201 Second Edition; CAN/CSA-C22.2 No. 61010-2-201 Second Edition
RCM (formerly C-TICK)	Yes
KC approval	Yes; in preparation
EMC	EN 61000-6-3; EN 61000-6-4, CAN/CSA CISPR 22 Class B, EN 55032 Class B; FCC Class A; KN32 Class B, EN 61000-3-2 Class D; EN 61000-3-3
Dust protection	With front door closed: G2 EN 779, 99% of particles > 0.5 mm are filtered
<b>Ambient conditions</b>	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	<p>0 °C; Max. 10 °C/h (no condensation)</p> <p>50 °C</p>
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	<p>-20 °C; Max. 20 °C/h (no condensation)</p> <p>60 °C</p>
Relative humidity	
<ul style="list-style-type: none"> <li>• Relative humidity</li> </ul>	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	
<ul style="list-style-type: none"> <li>• Vibration resistance during operation acc. to IEC 60068-2-6</li> </ul>	Tested according to IEC 60068-2-6: 10 cycles, 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s <sup>2</sup> (0.5 g)
Shock testing	
<ul style="list-style-type: none"> <li>• Shock load during operation</li> </ul>	Tested according to DIN IEC 60068-2-7: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks
<b>Operating systems</b>	
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)

without operating system	Yes
<b>Dimensions</b>	
Width	430 mm
Height	88 mm; 2U
Depth	444 mm
<b>Approvals / Certificates</b>	
<b>General Product Approval</b>	<b>EMV</b>



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