

SIMATIC IPC RW-545A (rack IPC, 19", 4 U); MB: chipset R680E, 2x 1 Gbit LAN(IE/PN), RJ45; 1x 2.5 Gbit LAN(IE/PN), RJ45; 3x display port, 1x DVI-D; 4x USB 3.2 Gen. 2 type A, 2x USB 3.2 Gen. 2x2 type C, 2x USB 2.0 type A internal, 2x M.2 slot, TPM2.0, audio; 7 slots: 1x PCI, 2x PCIe x16(1x 16L or 2x 8L), 1x PCIe x8(4L), 3x PCIe x4(4L), 2x USB 3.1 type A, 12x status LEDs on the front; Core i7-12700E 12C(8P+4E)/20T, 2.1 (4.8) GHz, 25 MB cache, iAMT 2 TB HDD 3.5" SATA 1 TB SSD M.2 NVMe (1 slot M.2 occupied) 32 GB DDR5 SDRAM (2x 16 GB) enclosure with drive support type B (for internal installation; 0.2 g vibration, 2 g shock), blue chromated 850 W 100/240 V AC industrial power supply unit without operating system; without USB flash drive (D&D) power supply cord USA

General information	
Product type designation	RW-545A
Installation type/mounting	
Mounting	For horizontal and vertical installation; prepared for telescopic rails; 19" mounting bracket can be removed externally; tower kit (optional)
Design	Rack PC, 19", 4U
Supply voltage	
Type of supply voltage	100/240V AC (autorange) 50/60 Hz
Line frequency	
<ul style="list-style-type: none"> Rated value 50 Hz Rated value 60 Hz 	<ul style="list-style-type: none"> Yes Yes
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	20 ms
Processor	
Processor type	Core i5-12500E 6C(6P)/12T, 2.9 (4.5) GHz, 18 MB Cache
Chipset	Intel R680E
Graphic	
Graphics card	Yes; NVIDIA T400, RTX A2000, RTX A4000, RTX A5000
Drives	
Slot for drives	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	16 GB DDR5 4800 SDRAM DIMM
Capacity of main memory, max.	128 Gbyte
Hardware configuration	
Slots	
<ul style="list-style-type: none"> free slots Number of PCI slots Number of PCI slots number of M.2 slots 	<ul style="list-style-type: none"> 7 free slots for expansions (all long); 2x PCIe x16 (1 x 16 or 2 x 8 lanes) Gen 4; 1x PCIe x8 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 3; 1x PCIe x4 (4 lanes) Gen 4; 1x PCIe x4 (4 lanes) Gen 4; 1x PCI 1 6 2
Interfaces	
Interfaces/bus type	2x Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; 1x 2.5 Gigabit Ethernet (IE/PN), RJ 45, teaming-capable; USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x on front, USB 2.0: 2x internal e.g. for software dongle with option interlock, 3x DisplayPort V1.4a, 1x DVI-D, 1x COM1 and 1x COM2 (optional), audio: line in, line out, micro
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	COM1 (optional): 1x RS 232 or RS 485; COM2 (optional) 1x RS 232
Multimedia	
<ul style="list-style-type: none"> Audio In/Out Microphone In 	<ul style="list-style-type: none"> Yes Yes

Video interfaces	
• Graphics interface	3x DisplayPort; 1x DVI-D
Industrial Ethernet	
• Industrial Ethernet interface	3x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	2
• number of interfaces (2 500 Mbps)	1
Interrupts/diagnostics/status information	
LED status display	POWER, HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, WATCHDOG, TEMP, FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
EMC	
Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity	±4 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 61000-4-5, surge, length > 30 m
• 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	30 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 32, EN 55032 Class B; FCC Class A; KS C 9832; EN 61000-3-2 Class D; EN 61000-3-3
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes; EN 61000-3-2 Class D; EN 61000-3-3
Degree and class of protection	
IP (at the front)	IP30
IP (rear)	IP20
Standards, approvals, certificates	
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	UL 61010-2-201 Second Edition, File E85972
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
BIS	Yes
EMC	EN 61000-6-3; EN 61000-6-4, CISPR 32, EN 55032 Class B; FCC Class A; KS C 9832; 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
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	40 °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: 0 °C to 31 °C: 5-85%; decreasing linearly to 5-50% at 40 °C (no condensation), storage/transportation: 5% to 95% at 25 °C to 55 °C (gradient: ≤ 20 K/h; no condensation)
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	Tested according to IEC 60068-2-6, 10 cycles; 20 to 58 Hz: 0.015 mm; 58 to 200 Hz: 2 m/s ² (0.2 g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27; half-sine: 9.8 m/s ² (1 g), 20 ms, 100 shocks per axis
Operating systems	
pre-installed operating system	without operating system; without USB flash drive (restore image; D&D)
Additional info on operating system	Multi-Language User Interface (MUI): 5 languages (English, German, French, Spanish, Italian)
without operating system	Yes
Dimensions	
Width	430 mm
Height	177 mm; 4U
Depth	446 mm
Approvals / Certificates	

General Product Approval



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General Product Approval

Dangerous goods



[Dangerous goods information](#)

[Test Summary Report UN 38.3](#)

last modified:

5/14/2026