

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 i5-13500E 14C(6P+8E)/20T; 2.4 (4.6) GHz, iAMT; board 2 slots: 2x PCIe x16 (2x 8L or 1x 16L) 960 GB SSD [Enterprise] 2.5" SATA 512 GB SSD M.2 NVMe (1 slot M.2 occupied) 16 GB DDR5 SDRAM (2x 8 GB) drive support type B (for internal installation; 0.5 g vibration, 5 g shock) 550 W 100/240 V AC industrial power supply unit Windows 11 IoT Enterprise LTSC 2024, MUI, [for Core i3/i5]; without USB flash drive (restore image; D&D) power supply cord Europe

General information	
Product type designation	RW-528A
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"> Rated value 50 Hz Rated value 60 Hz 	Yes Yes
Mains buffering	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	20 ms
Processor	
Processor type	Intel Core i9-13900E (24C(8P+16E)/32T), 1,8 (5,2) GHz, 36 MB Cache; Intel Core i7-13700E (16C(8P+8E)/24T), 1,8 (5,1) GHz, 30 MB Cache; Intel Core i5-13500E (14C(6P+8E)/20T), 2,4 (4,6) GHz, 30 MB Cache; Intel Core i3-13100E (4C(4P)/8T), 3,3 (4,4) GHz, 12 MB Cache
Chipset	Intel R680E
Graphic	
Graphics controller	Intel® UHD Graphics 730 / 770
Graphics card	NVIDIA RTX A400, RTX 2000 ADA, RTX 4000 ADA, RTX 5000 ADA
Drives	
Hard disk	1x 2 TB 3.5" SATA HDD, 2x 2 TB 3.5" SATA HDD, 1x 480 GB 2.5" SATA SSD, 1x 960 GB 2.5" SATA SSD, 2x 960 GB 2.5" SATA SSD, RAID1 2x 2 TB 3.5" SATA HDD, RAID1 2x 480 GB 2.5" SATA SSD, RAID1 2x 960 GB 2.5" SATA SSD, RAID1 2x 2 TB [Enterprise] 3.5" SATA HDD, RAID1 2x 4 TB [Enterprise] 3.5" SATA HDD, RAID1 2x 4 TB [Enterprise] 3.5" SATA HDD + 4 TB [Enterprise] 3.5" SATA HDD hot spare
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"> free slots Number of PCI slots Number of PCI slots number of M.2 slots 	2 slots: 1x PCI Express (x16) (2x8 lanes or 1x16 lane) or 4 slots: 2x PCI, 2x PCI Express (x16) (2x8 lanes or 1x16 lane) (8 lanes) or 4 slots: 2x PCI Express (x16) (2x8 lanes or 1x16 lane), 2x PCI Express (x16) (4 lanes); expansion modules up to 312 mm in length can be used 2; depends on configurations 4; depends on configurations 2
Interfaces	
Interfaces/bus type	1x Gigabit Ethernet (IE/PN), RJ 45; 3x 2.5 Gigabit Ethernet (IE/PN), RJ 45;

	USB 3.2 Gen 2: 4x type A, USB 3.2 Gen 2x2: 2x type C, on rear, USB 3.1 Gen 1: 2x type A on front, USB 2.0: 2x internal e.g. for software dongle with optional interlock, 4x DisplayPort V1.4a, 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: 1x RS 232, COM2 (optional): 1x RS 232
Multimedia	
• Audio In/Out	Yes
• Microphone In	Yes
Video interfaces	
• Graphics interface	4x DisplayPort
Industrial Ethernet	
• Industrial Ethernet interface	3x 2.5 Gigabit Ethernet (IE), RJ45; 1x Gigabit Ethernet (IE/PN), RJ45
— 100 Mbps	Yes
— 1000 Mbps	Yes
• number of interfaces (1 000 Mbps)	1
• number of interfaces (2 500 Mbps)	3
Interrupts/diagnostics/status information	
LED status display	POWER; HDD, ETHERNET 1, ETHERNET 2, ETHERNET 3, ETHERNET 4, WATCHDOG, TEMP/FAN, HDD3 ALARM, HDD2 ALARM, HDD1 ALARM, HDD0 ALARM
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Fan	Yes
• 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; length > 30 m; ±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
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, 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	
• 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)	IP41
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	Yes; UL 61010-2-201 Second Edition, File E85972
• UL 508	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

Ambient conditions

Ambient temperature during operation	
• min.	0 °C; Max. 10 °C/h (no condensation)
• max.	50 °C

Ambient temperature during storage/transportation	
• min.	-20 °C; Max. 20 °C/h (no condensation)
• max.	60 °C

Relative humidity	
• Relative humidity	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	
• Vibration resistance during operation acc. to IEC 60068-2-6	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 ² (0.5 g)

Shock testing	
• Shock load during operation	Tested according to DIN IEC 60068-2-7: 50 m/s ² (5 g), 30 ms, 100 shocks

Operating systems

pre-installed operating system	Windows 11 IoT Enterprise LTSC 2024
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	88 mm; 2U
Depth	444 mm

Approvals / Certificates

General Product Approval	EMV
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