



INDUSTRIAL RACKMOUNT PC/SERVER
Scalable Industrial Rackmount PC for
Challenging and Noise Sensitive Environments

- ▶ Industrial grade for challenging environments: robust, reliable and sustainable
- ▶ Maximum performance up to 8th Gen Intel® Core™ i7/i5/i3 or Intel® Xeon® processors
- ▶ Low noise level, 24/7 operation
- ▶ Modular and flexible concept for easy customization
- ▶ Various formats available: 1U, 2U, 4U and short versions
- ▶ Long-term availability (5+ years)
- ▶ Tool-free replacement of fans, filter mats, or hard disk drives in the removable tray
- ▶ Microsoft Azure certified, TSN functionality optionally



INDUSTRIAL SERVER FOR DEEP LEARNING, MACHINE LEARNING, INFERENCE
KISS 4U V3 SKX with Dual Intel® Xeon® SP processors and high-end GPUs

- ▶ Real-time parallel processing
- ▶ Installation of up to 3 double width high-end GPU cards for training algorithms or inference (e.g. NVIDIA® TESLA® V100, NVIDIA® T-4 GPU)
- ▶ Easy server configuration and scalability
- ▶ Extended storage possibilities with up to 8x 2.5" storage trays
- ▶ Low server noise emission
- ▶ High security and reliability
- ▶ Supports Intel® Rapid Storage Technology enterprise option RAID 0/1/10/5
- ▶ Long term availability (+ 5 years)

About Kontron – Member of the S&T Group

Kontron is a global leader in IoT/Embedded Computing Technology (ECT). As a part of technology group S&T, Kontron, together with its sister company S&T Technologies, offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

For more information, please visit: www.kontron.com

About the Intel® Internet of Things Solutions Alliance

From modular components to market-ready systems, Intel and the 400+ global member companies of the Intel® Internet of Things Solutions Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance members to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

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INDUSTRIAL RACKMOUNT PC/SERVERS



- ▶ **INDUSTRIAL GRADE**
Perfect fit for challenging and rough environments
- ▶ **HIGH PERFORMANCE COMPUTING**
High processing capability and graphics power
- ▶ **EASY CUSTOMIZATION**
Modular and flexible concept

INDUSTRIAL RACKMOUNT PC/SERVERS
for Industrial Applications & Embedded Cloud Solutions

Kontron's industrial Rackmount PCs and servers are designed and tested for challenging environments and are therefore the perfect fit for high temperature and mechanical stress conditions.

All Kontron industrial Rackmount PCs and servers are ideally suited even for complex computing tasks as 'Artificial Intelligence' (AI) and machine learning based on processing and analytics of a huge amount of data. Efficient thermal concepts, maintenance-free and customizable designs (in-house), high performance computing and graphics power enable 24/7 operation and long-term deployment.

INDUSTRIAL RACKMOUNT PC/SERVERS

for Industrial Applications & Embedded Cloud Solutions



KISS 1U Short V3 CFL



KISS 2U Short V3 CFL



KISS 2U V3 CFL



KISS 4U V3 CFL



KISS 2U V3 PCI763



KISS 4U V3 PCI763



KISS 4U V3 SKW



KISS 4U V3 SKX



CHIPSET	Intel® C246	Intel® C246	Intel® C246	Intel® C246	Intel® Q170	Intel® Q170	Intel® C422	Intel® C621	
PROCESSOR	8th Gen Intel® Core™ i7/i5/i3	8th Gen Intel® Core™ i7/i5/i3 or Intel® Xeon® E-2100 series	8th Gen Intel® Core™ i7/i5/i3 or Intel® Xeon® E-2100 series	8th Gen Intel® Core™ i7/i5/i3 or Intel® Xeon® E-2100 series	7th Gen Intel® Core™ i7/i5/i3	7th Gen Intel® Core™ i7/i5/i3	Intel® Xeon® W-2100 series	2x Intel® Xeon SP series	
MEMORY	4x DIMM DDR4-2666 up to 64 GByte	4x DIMM DDR4-2666 up to 64 GByte ECC support optional	4x DIMM DDR4-2666 up to 64 GByte ECC support optional	4x DIMM DDR4-2666 up to 64 GByte ECC support optional	2x DIMM DDR4-2400 up to 32 GByte ECC support	2x DIMM DDR4-2400 up to 32 GByte ECC support	8x DIMM DDR4-2666 up to 512 GByte ECC support	12 x DIMM DDR4-2666/2400 up to 768 GByte ECC support	
STANDARD IOS	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 4x USB 3.1, 4x USB 2.0, 2x GByte LAN, 1x DVI-D, 2x DP 1x RS232, 1x Mouse, 1x Kbd, 1x Audio	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 4x USB 3.1, 4x USB 2.0, 2x GByte LAN, 1x DVI-D, 2x DP 1x RS232, 1x Mouse, 1x Kbd, 1x Audio	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 4x USB 3.1, 4x USB 2.0, 2x GByte LAN, 1x DVI-D, 2x DP 1x RS232, 1x Mouse, 1x Kbd, 1x Audio	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 4x USB 3.1, 4x USB 2.0, 2x GByte LAN, 1x DVI-D, 2x DP 1x RS232, 1x Mouse, 1x Kbd, 1x Audio	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 2x USB 3.0, 2x GByte LAN, 1x DVI-I 2x RS232 on Slotbracket	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 2x USB 3.0, 2x GByte LAN, 1x DVI-I 2x RS232 on Slotbracket	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 2x USB 3.0, 2x GByte LAN, 1x DVI-I 2x RS232 on Slotbracket	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 7x USB 3.1, 1x USB 3.1C, 2x GByte LAN, 1x Mouse, 1x Kbd, 1x Audio	Front: 2x USB 2.0, opt. 2x USB 3.0 Rear: 2x USB 2.0, 4x USB 3.1 Gen 1, 1x USB BIOS Flashback Button 2x GByte LAN 1x PS/2 Mouse/Kbd Combo 1 x S/PDIF (optical) 1 x Audio VGA port with Bracket Aspeed (AST2500, blocks on slot)
EXPANSION SLOTS	1 slot PCIe (Low Profile)	4 slots PCIe (Low Profile) or 3 slots PCIe (Full High)	4 slots PCIe (Low Profile) or 3 slots PCIe (Full High)	7 slots (Full High): 5x PCIe, 2x PCI	5 Slots (Full High): 1x PCIe x16, 3x PCIe x4, 1x PCIe x8	12 Slots PCI (Full High): 5x PCIe (Gen 2), 7x	7 slots PCIe (Full High)	7 slots PCIe (Full High) for e.g. up to 3 double width high-end GPU cards	
EXPANSION CARDS	2x GByte LAN, 2x 10 GByte LAN, others on request	NVIDIA Quadro P620, 2x GByte LAN, 2x 10 GByte LAN, others on request	NVIDIA Quadro P620, 2x GByte LAN, 2x 10 GByte LAN, others on request	NVIDIA Quadro P620, 2x GByte LAN, 2x 10 GByte LAN, others on request	2x GByte LAN, 2x 10 GByte LAN, others on request	NVIDIA Quadro P620, 2x GByte LAN, 2x 10 GByte LAN, others on request	NVIDIA Quadro P620, 2x GByte LAN, 2x 10 GByte LAN, others on request	NVIDIA Quadro P620, NVIDIA GV100, 2x GByte LAN, 2x 10 GByte LAN, others on request	
PSU	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	
DRIVE OPTIONS	1x DVD R/W slim 1x 3.5" drive bay 1x M.2 2280 PCIe drive RAID support	1x DVD R/W slim 1x 3.5" SATA drive bay 1x 2.5"/3.5" SATA drive internal 1x M.2 2280 PCIe drive RAID support	1x DVD R/W slim 1x 3.5" SATA drive bay 1x 2.5"/3.5" SATA drive internal 1x M.2 2280 PCIe drive RAID support	3x 5.25" SATA drive bays 1x 2.5"/3.5" SATA drive internal 1x M.2 2280 PCIe drive RAID support	1x DVD R/W slim 1x 5.25" SATA drive bay 1x 2.5"/3.5" SATA drive internal RAID support	3x 5.25" SATA drive bays 1x 2.5"/3.5" SATA drive internal RAID support	3x 5.25" SATA drive bays 1x 2.5"/3.5" SATA drive internal 1x M.2 2280 PCIe drive RAID support	2x 5.25" SATA drive bays 1x 2.5"/3.5" SATA drive internal 1x M.2 2280 PCIe drive RAID support	
DIMENSIONS	44 x 482 x 350 mm (1U x 19" x 13.78")	88 x 482 x 350 mm (2U x 19" x 13.78")	88 x 482 x 472 mm (2U x 19" x 18.58")	177 x 482 x 472 mm (4U x 19" x 18.58")	88 x 482 x 472 mm (2U x 19" x 18.58")	177 x 482 x 472 mm (4U x 19" x 18.58")	177 x 482 x 472 mm (4U x 19" x 18.58")	177 x 482 x 472 mm (4U x 19" x 18.58")	
WEIGHT	app. 6 kg	app. 7 kg	app. 8 kg	app. 18 kg	app. 8 kg	app. 18 kg	app. 18 kg	app. 22 kg	
MOUNTING	Rackmount, Desktop	Rackmount, Desktop	Rackmount, Desktop	Rackmount, Desktop or Tower	Rackmount, Desktop	Rackmount, Desktop or Tower	Rackmount, Desktop or Tower	Rackmount, Desktop or Tower	
CERTIFICATIONS	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	CE, FCC, TÜV NRTL	
OPERATING TEMP.	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +50 °C	0 °C to +45 °C	
SHOCK (EN 60068-2-27)	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	Operating: 15 G 11 ms duration Non-operating: 30 G 11 ms duration	
VIBRATION (EN 60068-2-6)	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis	
ALTITUDE	5000 m	5000 m	5000 m	5000 m	5000 m	5000 m	5000 m	5000 m	
VERIFIED OS	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	Windows 10 64 Bit LTSC Linux Ubuntu 18.04 others on request	

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<https://www.kontron.com/products/systems/rack-mount-systems>