



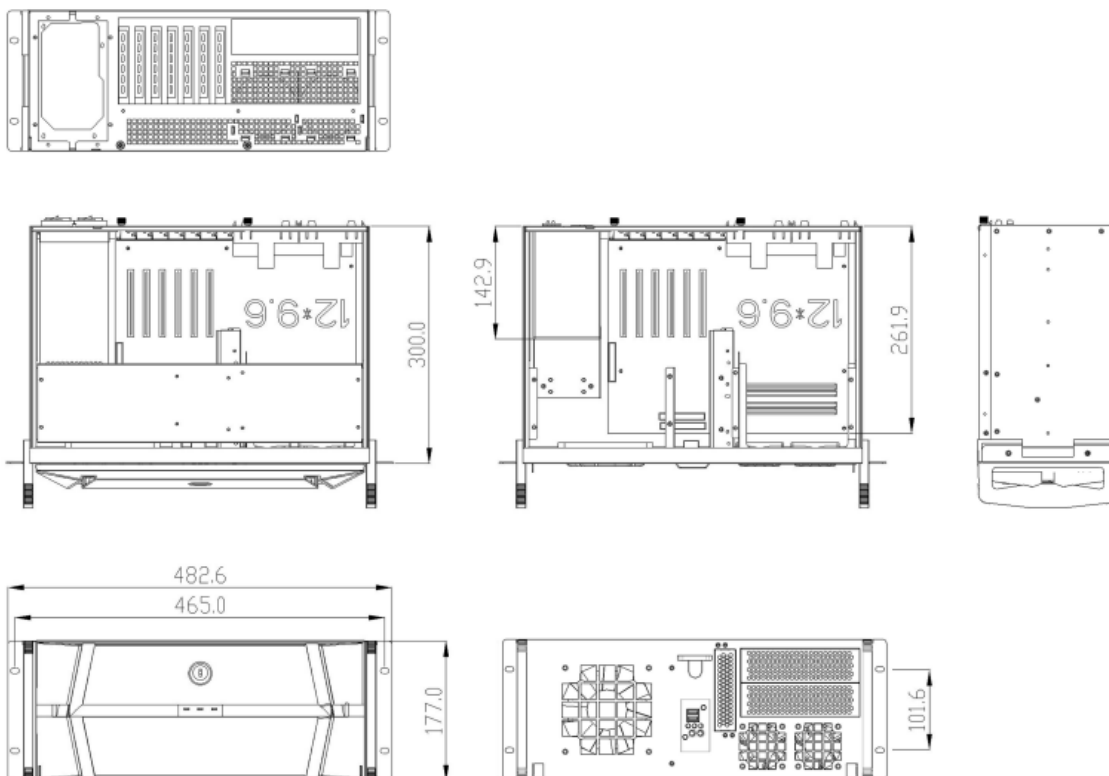
4U 19" Shallow Depth Rackmount Computer with 7 Expansion Slots

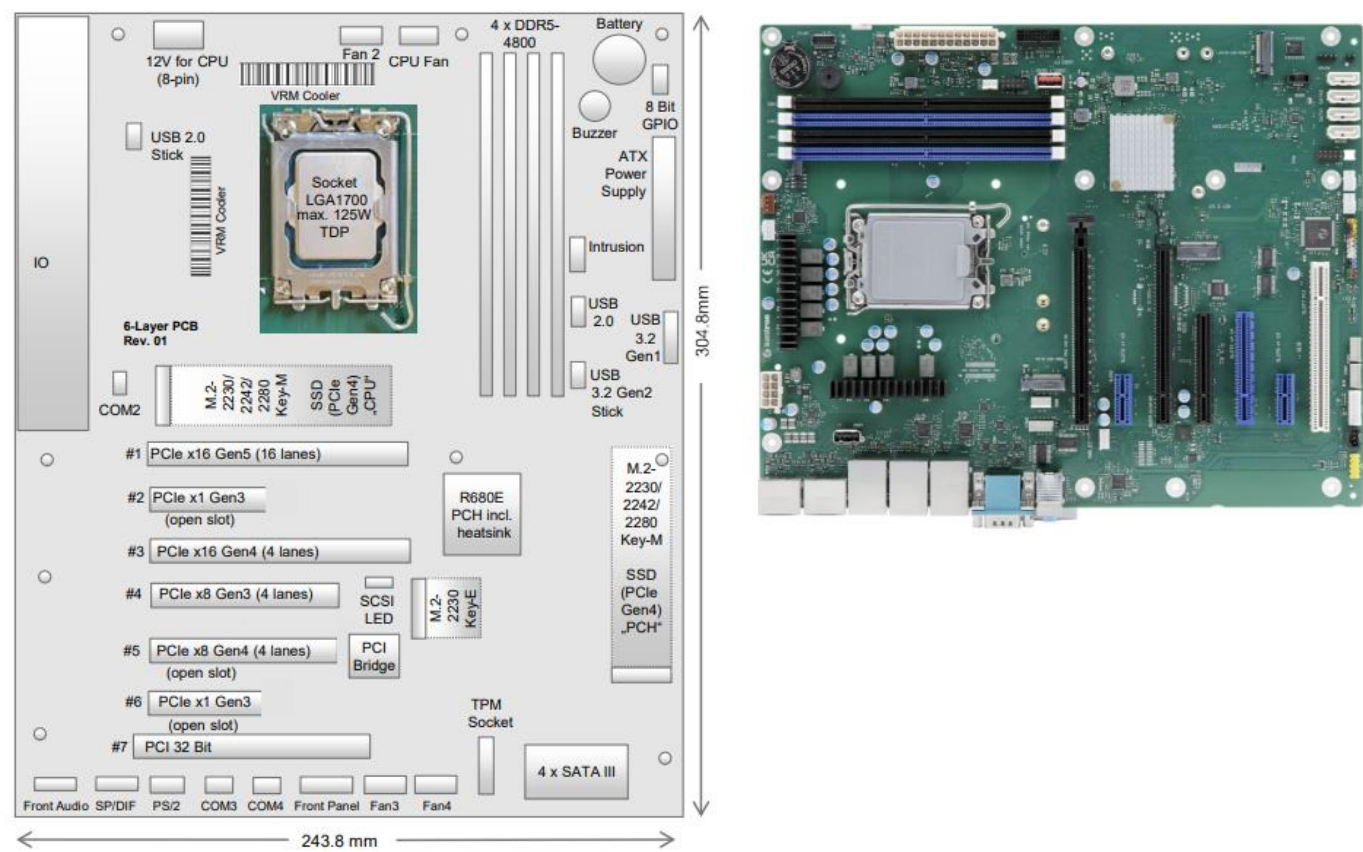
- 4U Industrial rackmount system, 300mm Depth
- Supports Intel® 12th/13th/14th Gen processors
- 6 PCIe & 1 PCI expansion slots
- 1 x GbE LAN port & 2 x 2.5 GbE LAN ports with TSN
- Intel® R680E Chipset with RAID support
- 4 DIMM DDR5 ECC up to 192GB
- 4x DisplayPorts support up to 8K
- I/O: 3 LAN, 4 USB 3.1, 2 USB 3.2, 1 USB-C & 1 RS232
- Extended Lifecycle Series

PROCESSORS	14th Generation Intel® LGA 1700 Socket Processors, TDP support up to 125W Intel® Core™ i9-14901E (8 Cores, 36M Cache, up to 5.6 GHz); 65W Intel® Core™ i5-14401E (6 Cores, 24M Cache, up to 4.7 GHz); 65W Intel® Core™ i9-14900 (24 Cores, 36M Cache, up to 5.8 GHz); 65W Intel® Core™ i9-14900T (24 Cores, 36M Cache, up to 5.5 GHz); 35W Intel® Core™ i7-14700 (20 Cores, 33M Cache, up to 5.4 GHz); 65W Intel® Core™ i7-14700T (20 Cores, 33M Cache, up to 5.2 GHz); 35W Intel® Core™ i5-14500 (14 Cores, 24M Cache, up to 5 GHz); 65W Intel® Core™ i5-14500T (14 Cores, 24M Cache, up to 4.8 GHz); 35W Intel® Core™ i5-14400 (10 Cores, 20M Cache, up to 4.7 GHz); 65W Intel® Core™ i5-14400T (10 Cores, 20M Cache, up to 4.5 GHz); 35W Intel® Core™ i3-14100 (4 Cores, 12M Cache, up to 4.7 GHz); 60W Intel® Core™ i3-14100T (4 Cores, 12M Cache, up to 4.4 GHz); 35W Intel® 300 (2 Cores, 6M Cache, up to 3.9 GHz); 46W Intel® 300T (2 Cores, 6M Cache, up to 3.4 GHz); 35W 13th Generation Intel® LGA 1700 Socket Processors, TDP support up to 125W Intel® Core™ i9-13900E (24 Cores, 36M Cache, up to 5.2 GHz); 65W Intel® Core™ i9-13900TE (24 Cores, 36M Cache, up to 5.0 GHz); 35W Intel® Core™ i7-13700E (16 Cores, 30M Cache, up to 5.1 GHz); 65W Intel® Core™ i7-13700TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W Intel® Core™ i7-13700T (16 Cores, 30M Cache, up to 4.9 GHz); 35W Intel® Core™ i5-13500E (14 Cores, 24M Cache, up to 4.6 GHz); 65W Intel® Core™ i5-13500TE (14 Cores, 24M Cache, up to 4.5 GHz); 35W Intel® Core™ i5-13500T (14 Cores, 24M Cache, up to 4.6 GHz); 35W Intel® Core™ i5-13400E (10 Cores, 20M Cache, up to 4.6 GHz); 65W Intel® Core™ i3-13100E (4 Cores, 12M Cache, up to 4.4 GHz); 65W Intel® Core™ i3-13100TE (4 Cores, 12M Cache, up to 4.1 GHz); 35W Intel® Core™ i3-13100T (4 Cores, 12M Cache, up to 4.2 GHz); 35W 12th Generation Intel® LGA 1700 Socket Processors, TDP support up to 125W Intel® Core™ i9-12900E (16 Cores, 30M Cache, up to 5.0 GHz); 65W Intel® Core™ i9-12900TE (16 Cores, 30M Cache, up to 4.8 GHz); 35W Intel® Core™ i7-12700E (12 Cores, 25M Cache, up to 4.8 GHz); 65W Intel® Core™ i7-12700TE (12 Cores, 25M Cache, up to 4.6 GHz); 35W Intel® Core™ i5-12500E (6 Cores, 18M Cache, up to 4.5 GHz); 65W Intel® Core™ i5-12500TE (6 Cores, 18M Cache, up to 4.3 GHz); 35W Intel® Core™ i3-12100E (4 Cores, 12M Cache, up to 4.2 GHz); 60W Intel® Core™ i3-12100TE (4 Cores, 12M Cache, up to 4.0 GHz); 35W Intel® Pentium® G7400E (2 Cores, 6M Cache, 3.6 GHz); 46W Intel® Pentium® G7400TE (2 Cores, 6M Cache, 3.0 GHz); 35W Intel® Celeron® G6900E (2 Cores, 4M Cache, 3.0 GHz); 46W Intel® Celeron® G6900TE (2 Cores, 4M Cache, 2.4 GHz); 35W
CHIPSET	Intel® R680E Chipset
MEMORY	4 DIMM Sockets UDIMM DDR5-4800/5600***, max. 192 GByte Dual Channel unbuffered, ECC support Effective memory speed of DDR5 modules according Intel® specification: 1x DIMM per channel = max. DDR5-4400*** 2x DIMM per channel (single rank) = max. DDR5-4000 2x DIMM per channel (dual rank) = max. DDR5-3600
BIOS	AMI Aptio 5.x (UEFI) BIOS modified and adapted by Kontron; Recovery BIOS, SMBIOS (DMI), BIOS and CPU Microcode Update, Quick Boot, Logo Boot, Quiet Boot, Plug & Play, Automatic DRAM and PCIe Configuration, BIOS Support for S.M.A.R.T., Advanced Power Management, ACPI S3/S4, Wake on time from S5. No legacy OS support, no MBR installation (UEFI only)
STORAGE	4x Serial ATA III 600 Interface (up to 6Gbit/s), NCQ, AHCI, RAID 0/1/5/10 2x M.2 2230/2242/2280 (Key-M, PCIe/NVME SSD modules), incl. NVME RAID support
OPTICAL	Optional DVD drive
WATCHDOG TIMER	BIOS POST-/BIOS BOOT-/OS-HW Watchdog
EXPANSION SLOTS	PCIe x16: 1x 16 lanes, Gen5* / 1x 4 lanes, Gen4 PCIe x8: 1x 4 lanes, Gen4 ("open slot") / 1x 4 lanes, Gen3 ("closed slot") PCIe x1: 2x Gen3 ("open slots") PCI: 1x 32Bit slot M.2 wireless: 1x M.2 2230 (Key-E, WLAN/Bluetooth modules, incl. CNVi support)
POWER SUPPLY OPTIONS	PS2 AC/DC or Redundant power supply options
AUDIO	Tempo Semiconductor 92HD91B 5.1- channel*, High Definition Audio Codec

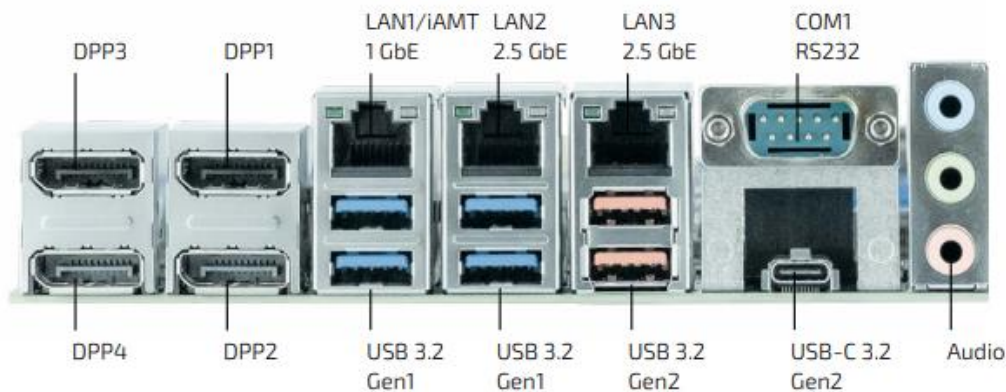
DISPLAY	Intel® UHD Graphics 7xx (depends on installed processor), 4x DPP V1.4a up to 8K
NETWORK CONNECTIONS	ETHERNET 1: Intel® i219LM with 10/100/1000 MBit/s, iAMT features, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, PXE Support, BIOS MAC Address Display, Teaming Support ETHERNET 2/3: Intel® i226LM **** with 10/100/1000/2500 MBit/s, TSN Support, Wake-on-LAN (WoL) by interesting Packets, Link Status Change and Magic Packet™, PXE Support, BIOS MAC Address Display, Teaming Support
USB	2x USB 3.2 Gen 2 (rear I/O, Type-A), 1x USB 3.2 Gen 2 (rear I/O, Type-C with locking option), 4x USB 3.2 Gen1 (rear I/O, Type-A), 2x USB 3.2 Gen1 (by header), 2x USB 2.0 (by header), 1x USB 3.2 Gen2 (internal Type-A stick socket), 1x USB 2.0 (internal Type-A stick socket)
SERIAL PORT/GPIO/TPM	1x RS232 (rear I/O), 3x RS232 (by header) 1x 8-Bit GPIO TPM V2.0 (Intel® integrated); socket for optional TPM module
SYSTEM CONTROL	Recovery BIOS, System and BIOS Password, Boot Sequence Control, Serial/USB- Port Access Protection, Write Protection for Flash BIOS, EraseDisk (BIOS Feature), Trusted Platform Module (TPM)
OPERATING SYSTEMS SUPPORTED	MS Windows® 10, MS Windows® 10 IoT, MS Windows® 11, MS Windows® 11 IoT, Linux 64 No legacy OS support, no MBR installation (UEFI only)
CHASSIS DIMENSIONS	(W x D x H) 482.6 x 300 x 177
DRIVE BAYS	2 x 5.25" & 1 x 3.5" (supports 2 x 2.5" drives)
COOLING	3 x front mounted fans. Option to add 2 x rear fans
COLOUR	Black (other colours available upon request)
SECURITY	Lockable front door
ENVIRONMENTAL	Operating Temperature 0° to 60°

Dimensions





Rear I/O



Standard Services

						
Integrated Components	Revision Controlled	Fully Tested & Documented	Software Installed	Full Traceability	ISO Certified	OEM Customisation

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