

ICOM2500

Industrial 2U Rackmount 8th/9th Gen System



ICOM2500

PRODUCT HIGHLIGHTS

- ▶ 2U 19" 20.80" Deep Rackmount system with 7 x low profile expansion slots
- ▶ Life Cycle Support Until Q4' 33
- ▶ Industrial motherboard based solution
- ▶ Supports Intel 8th/9th Gen Intel® Xeon®/Core™ with Intel® C246 chipset
- ▶ 4 DDR4 ECC/Non-ECC DIMM up to 128GB
- ▶ Motherboard expansion slots: 2 PCIe x16, 3 PCIe x4, 1 PCIe x1, 1 PCI, 1 Full-sized Mini PCIe, 1 M.2 M key
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 2 USB 3.1 Gen 2, 4 USB 3.1 Gen 1, 6 USB 2.0
- ▶ Supports 3 independent displays



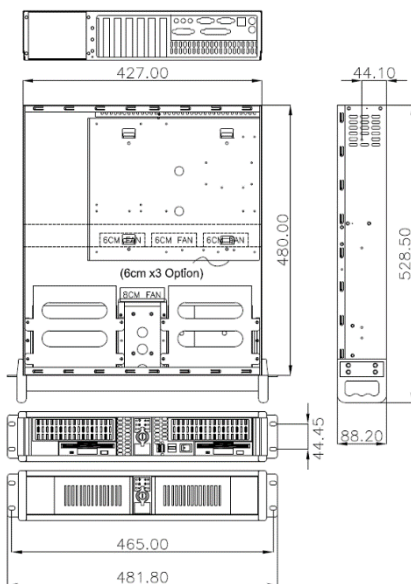
TECHNICAL INFORMATION

PROCESSOR	8th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Processors: Intel® Xeon® E-2176G (6 Cores, 12M Cache, up to 4.7 GHz); 80W Intel® Xeon® E-2124G (4 Cores, 8M Cache, up to 4.5 GHz); 71W Intel® Core™ i7-8700K (6 Cores, 12M Cache, up to 4.7 GHz); 95W Intel® Core™ i7-8700 (6 Cores, 12M Cache, up to 4.6 GHz); 65W Intel® Core™ i7-8700T (6 Cores, 12M Cache, up to 4.0 GHz); 35W Intel® Core™ i5-8500 (6 Cores, 9M Cache, up to 4.1 GHz); 65W Intel® Core™ i5-8500T (6 Cores, 9M Cache, up to 3.5 GHz); 35W Intel® Core™ i3-8100 (4 Cores, 6M Cache, 3.6 GHz); 65W Intel® Core™ i3-8100T (4 Cores, 6M Cache, to 3.1 GHz); 35W Intel® Pentium® G5400 (2 Cores, 4M Cache, 3.7 GHz); 58W Intel® Pentium® G5400T (2 Cores, 4M Cache, 3.1 GHz); 35W Intel® Celeron® G4900 (2 Cores, 2M Cache, 3.1 GHz); 54W Intel® Celeron® G4900T (2 Cores, 2M Cache, 2.9 GHz); 35W 9th Generation Intel® Core™ LGA 1151 Socket Processors: Intel® Xeon® E-2278GE (8 Cores, 16M Cache, up to 4.7 GHz); 80W Intel® Xeon® E-2278GEL (8 Cores, 16M Cache, up to 3.9 GHz); 35W Intel® Xeon® E-2226GE (6 Cores, 12M Cache, up to 4.6 GHz); 80W Intel® Core™ i9-9900K (8 Cores, 16M Cache, up to 5.0 GHz); 95W Intel® Core™ i7-9700K (8 Cores, 12M Cache, up to 4.9 GHz); 95W Intel® Core™ i7-9700E (8 Cores, 12M Cache, up to 4.4 GHz); 65W Intel® Core™ i7-9700TE (8 Cores, 12M Cache, up to 3.8 GHz); 35W Intel® Core™ i5-9500E (6 Cores, 9M Cache, up to 4.2 GHz); 65W Intel® Core™ i5-9500TE (6 Cores, 9M Cache, up to 3.6 GHz); 35W Intel® Core™ i3-9100E (4 Cores, 6M Cache, 3.7 GHz); 65W Intel® Core™ i3-9100TE (4 Cores, 6M Cache, to 3.2 GHz); 35W
CHIPSET	Intel® C246 Chipset
MEMORY	Four 288-pin Non-ECC DIMM up to 128GB Dual Channel DDR4 2400/2666MHz (Core™ i5/i7 only support non-ECC)
BIOS	AMI SPI 128Mbit
STORAGE	Supports 2 x 5.25" SATA drive bays & 2 x 3.5" drive bays Supports 4 x SATA3.0 & RAID 0/1/5/10 Optional removable hard disk drives or solid state disks
OPTICAL	DVD±RW (±R DL) / DVD-RAM drive
WATCHDOG TIMER	Programmable via S/W from 1 sec. to 255 sec.
EXPANSION SLOTS	Chassis supports 7 x low profile chassis expansion slots Motherboard expansion slots: 2 x PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signals) 3 x PCIe x4 (Gen 3), 1 x PCIe x1 (Gen 3), 1 x PCI 1 x Full-sized Mini PCIe (PCIe/SATA/USB2.0), share with SATA 3(R5) 1 x M.2 2242/2260/2280 M key (PCIe Gen3 x4 NVMe/SATA)
POWER SUPPLY OPTIONS	400W ~ 600W 90~250VAC, DC 12~48V, Redundant Power Supplies
AUDIO	Realtek ALC888S-VD2-GR
ETHERNET	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM/I219V with iAMT12.0 (10/100/1000Mbps)
OPERATING SYSTEMS SUPPORTED	Windows 10 IoT Enterprise 64-bit Linux Ubuntu 20.04

TECHNICAL INFORMATION (CONTINUED)

DISPLAY	1 x VGA: resolution up to 1920x1200 @ 60Hz 2 x DP++: resolution up to 4096x2160 @ 60Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DP++ + DP++
REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/power (DB-9) 2 x USB 3.1 Gen 2 2 x USB 3.1 Gen 1 2 x USB 2.0 1 x PS/2 (mini-DIN-6) 1 x VGA 2 x DP++ 1 x Line-out, 1 x Mic-in, 1 x Line-in (opt., MOQ required)
OPTIONAL PORT EXPANSION FROM MOTHERBOARD	1 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch) 4 x RS-232 (2.54mm pitch) 2 x USB 3.1 Gen 1 (2.00mm pitch) 4 x USB 2.0 (2.54mm pitch) (1 x USB 2.0 Colay vertical Type A) (opt., MOQ required)
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	2x 5.25" SATA & 2 x 3.5" drive bays
MOTHERBOARD MTBF	534,017 hrs @ 25°C; 298,488 hrs @ 45°C ; 184,547 hrs @ 60°C ; 133,068 hrs @ 70°C Calculation Model: Telcordia Issue 4 Environment: GB, GC - Ground Benign, Controlled
ENVIRONMENT	Operating: 0 to 60°C Storage: -30 to 60°C with RTC Battery; -40 to 85°C without RTC Battery
COOLING	2x replaceable air filters 1x 8cm cooling fan 3x 6cm optional cooling fans
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	482.6 (W) x 528.3 (D) x 88.9 (H); 19" (W) x 20.8 (D) x 3.5" (H)

MECHANICAL DRAWING



Company Address

Kontron UK Limited
Units 3, 4, 5, 9 & 10 New Bury Park
Marsh Lane, Easthampnett, UK
TEL: +44 (0) 1243 380780
uksales@kontron.com
www.industrial-computers.com

MOTHERBOARD DETAILS

