

ICOM376

3U Xeon/10th Gen Industrial System



ICOM376

PRODUCT HIGHLIGHTS

- ▶ 3U Industrial Shallow Depth 381.0mm Rackmount System
- ▶ Intel 10th Gen Intel® Xeon & Core Processors with W480E chipset
- ▶ System supports 7 expansion slots
- ▶ 4 DDR4 UDIMM up to 128GB
- ▶ Multiple expansion: 2 PCIe x16, 1 PCIe x4, 1 PCIe x1, 2 PCI, 2 M.2 M key
- ▶ 3 independent displays: VGA + DP++ + HDMI
- ▶ Rich I/O: 2 Intel GbE, 4 USB 3.2 Gen 2, 2 USB 3.2 Gen 1, 6 USB 2.0
- ▶ 15-Year CPU Life Cycle Support Until Q2' 34 (Based on Intel IOTG Roadmap)



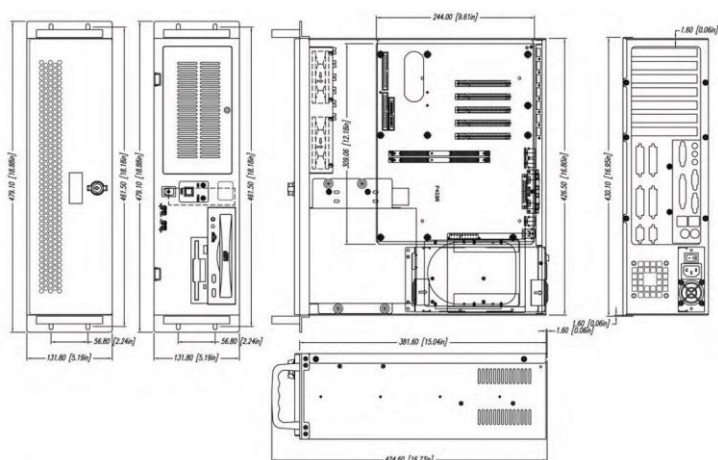
TECHNICAL INFORMATION

PROCESSOR	10th Generation Intel® LGA 1200 Socket Processors, TDP support up to 125W Intel® Xeon® W-1290E (10 Cores, 20M Cache, up to 4.8 GHz, ECC support); 95W Intel® Xeon® W-1290TE (10 Cores, 20M Cache, up to 4.5 GHz, ECC support); 35W Intel® Xeon® W-1270E (8 Cores, 16M Cache, up to 4.8 GHz, ECC support); 80W Intel® Xeon® W-1270TE (8 Cores, 16M Cache, up to 4.4 GHz, ECC support); 35W Intel® Xeon® W-1250E (6 Cores, 12M Cache, up to 4.7 GHz, ECC support); 80W Intel® Xeon® W-1250TE (6 Cores, 12M Cache, up to 3.8 GHz, ECC support); 35W Intel® Core™ i9-10900E (10 Cores, 20M Cache, up to 4.7 GHz); 65W Intel® Core™ i9-10900TE (10 Cores, 20M Cache, up to 4.5 GHz); 35W Intel® Core™ i7-10700E (8 Cores, 16M Cache, up to 4.5 GHz); 65W Intel® Core™ i7-10700TE (8 Cores, 16M Cache, up to 4.4 GHz); 35W Intel® Core™ i5-10500E (6 Cores, 12M Cache, up to 4.2 GHz); 65W Intel® Core™ i5-10500TE (6 Cores, 12M Cache, up to 3.7 GHz); 35W Intel® Core™ i3-10100E (4 Cores, 6M Cache, 3.8 GHz); 65W Intel® Core™ i3-10100TE (4 Cores, 6M Cache, to 3.6 GHz); 35W Intel® Pentium® G6400E (2 Cores, 4M Cache, 3.8 GHz); 58W Intel® Pentium® G6400TE (2 Cores, 4M Cache, 3.2 GHz); 35W Intel® Celeron® G5900E (2 Cores, 2M Cache, 3.2 GHz); 58W Intel® Celeron® G5900TE (2 Cores, 2M Cache, 3.0 GHz); 35W
CHIPSET	Intel® W480E Chipset
MEMORY	Four 288-pin Non-ECC UDIMM up to 128GB (Core™ i5/i7 only support non-ECC) Dual Channel DDR4 2400/2666/2933MHz (ECC memory support for Xeon processors)
BIOS	Insyde SPI 128Mbit
STORAGE	Supports 1 x external 3.5" drive bay & 3 x internal 3.5" drive bays Supports 1 x 5.25" drive bay Supports RAID 0/1/5/10 & 4 x SATA3.0 drives
OPTICAL	Optional 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 expansion slots Motherboard expansion slots: 2 x PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signal) 3 x PCIe x4 (Gen 3) (2 x4 signal and 1 x1 signal) 2 x PCI 2 x M.2 2242/2260/2280 M key (PCIe Gen3 x4 NVMe/SATA/Intel® Optane RST support) 1 x M.2 2230 E key (USB 2.0/PCIe x1 shared with PCIe x1 slot, opt., MOQ required)
POWER SUPPLY OPTIONS	1U form factor 350w to 500w 1U form factor DC 12~48V
AUDIO	Realtek ALC888
ETHERNET	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PHY iAMT12.0 (10/100/1000Mbps) (only Xeon, Core i7/i5 supports iAMT)
OPERATING SYSTEMS SUPPORTED	Windows 10 Pro 64-bit Windows 10 IoT Enterprise 64-bit Windows Server 2019 Linux
DISPLAY	1 x VGA, resolution up to 1920x1200 @ 60Hz 1 x DP++, resolution up to 4096x2160 @ 60Hz 1 x HDMI 1.4b, resolution up to 4096x2160 @ 24Hz

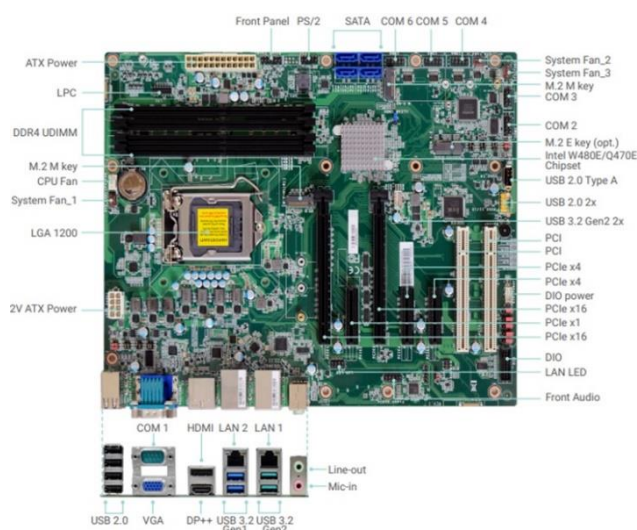
TECHNICAL INFORMATION (CONTINUED)

MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DP++ + HDMI
REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/power (DB-9) 2 x USB 3.2 Gen 2 & 2 x USB 3.2 Gen 1 & 4 x USB 2.0 1 x PS/2 (mini DIN-6) 1 x VGA & 1 x DP++ & 1 x HDMI 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 3.2 Gen 1 (Key B 20-pin) & 2 x USB 2.0 (2.54mm pitch, Colay vertical Type A, opt.: MOQ required) 1 x USB 2.0 Vertical Type A
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	Supports 4 x 3.5" drive bays & 1 x 5.25" drive bay
MOTHERBOARD MTBF	TBD
ENVIRONMENT	Operation Temperature: 0~60 °C / Storage Temperature: -20~85 °C Relative Humidity: 5~90%, non-condensing (Dependent on overall system specifications)
VIBRATION	5~7 Hz: 0.5" double amplitude displacement / 7~2000 Hz: 1.5g acceleration
COOLING	Removable & Washable air filter 2x 6cm front fans & 1x 4cm rear fan
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	482.6 (W) x 381 (D) x 131.8 (H); 19" (W) x 15 (D) x 5.19" (H)

MECHANICAL DRAWING



MOTHERBOARD DETAILS



3U CHASSIS DETAILS



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