

ICOM2503

Industrial 2U Rackmount Xeon/6th/7th Gen system



ICOM2503

PRODUCT HIGHLIGHTS

- ▶ 2U 19" rackmount, motherboard system
- ▶ Intel Xeon & 6th/7th Gen Intel® Core™ with Intel® C236
- ▶ 4 DDR4 ECC/Non-ECC DIMM up to 64GB
- ▶ Multiple LP expansion: 2 PCIe x16, 2 PCIe x4
- ▶ 3 independent displays: VGA + DVI-I + DP++
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 8 USB 3.0, 6 USB 2.0
- ▶ Two hot-swappable system fans
- ▶ 15-Year CPU Life Cycle Support Until Q2 2025



TECHNICAL INFORMATION

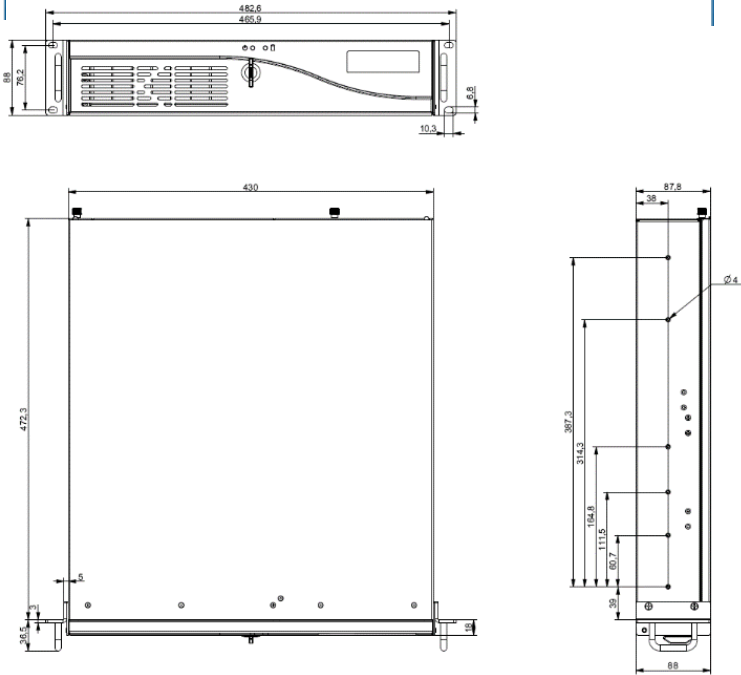
PROCESSOR	7th Gen Intel® Xeon/Core™/Pentium®/Celeron® LGA 1151 Processors TDP up to 95W: Intel® Xeon® Processor E3-1275 v6 (4 Cores, 8M Cache, up to 4.2 GHz); 73W Intel® Core™ i7-7700K (4 Cores, 8M Cache, up to 4.5 GHz); 91W (Non-LTS) Intel® Core™ i7-7700 (4 Cores, 8M Cache, up to 4.2 GHz); 65W Intel® Core™ i7-7700T (4 Cores, 8M Cache, up to 3.8 GHz); 35W Intel® Core™ i5-7500 (4 Cores, 6M Cache, up to 3.8 GHz); 65W Intel® Core™ i5-7500T (4 Cores, 6M Cache, up to 3.3 GHz); 35W Intel® Core™ i3-7101E (2 Cores, 3M Cache, 3.9 GHz); 65W Intel® Core™ i3-7101TE (2 Cores, 3M Cache, to 3.4 GHz); 35W 6th Gen Intel® Xeon/Core™/Pentium®/Celeron® LGA 1151 Processors TDP up to 95W: Intel® Xeon® Processor E3-1275 v5 (4 Cores, 8M Cache, up to 4.0 GHz); 80W Intel® Core™ i7-6700K (Cores, 8M Cache, up to 4.2 GHz); 91W (Non-LTS) Intel® Core™ i7-6700 (4 Cores, 8M Cache, up to 4.0 GHz); 65W Intel® Core™ i7-6700TE (4 Cores, 8M Cache, up to 3.4 GHz); 35W Intel® Core™ i5-6500 (4 Cores, 6M Cache, up to 3.6 GHz); 65W Intel® Core™ i5-6500TE (4 Cores, 6M Cache, up to 3.3 GHz); 35W Intel® Core™ i3-6101E (2 Cores, 4M Cache, 3.7 GHz); 65W Intel® Core™ i3-6101TE (2 Cores, 4M Cache, to 2.7 GHz); 35W Intel® Pentium® G4400 (2 Cores, 3M Cache, 3.3 GHz); 65W Intel® Pentium® G400TE (2 Cores, 3M Cache, 2.9 GHz); 35W Intel® Celeron® G3900 (2 Cores, 2M Cache, 2.8 GHz); 65W Intel® Celeron® G3900TE (2 Cores, 2M Cache, 2.6 GHz); 35W
CHIPSET	Intel® C236 Chipset
MEMORY	Four 288-pin ECC/Non-ECC DIMM up to 64GB Dual Channel DDR4 1866/2133MHz (Note: Core i5/i7 only support Non-ECC)
BIOS	Insyde SPI 128Mbit
STORAGE	Supports 6 x SATA 3.0 & RAID 0/1/5/10 Optional removable hard disk drives or solid state disks
OPTICAL	DVD±RW (±R DL) / DVD-RAM drive (optional)
WATCHDOG TIMER	Programmable via S/W from 1 sec. to 255 sec.
EXPANSION SLOTS	System configuration supports up to 3 PCIe Full Height expansion slots Motherboard expansion slots: 2 x PCIe x16 (1 x16 or 2 x8 signal) (Gen 3) 2 x PCIe x4 (Gen 3)
POWER SUPPLY OPTIONS	400W ~ 600W / 90~250VAC / DC 12~48V / Redundant Power Supplies
AUDIO	Realtek ALC888S-VD2-GR
ETHERNET	1 x Intel® I210AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT11.0 (10/100/1000Mbps) (Note: only Xeon E3/ Core i7/i5 supports iAMT)
OPERATING SYSTEMS SUPPORTED	Windows 10 64-bit Windows 7 32/64-bit Windows 8.1 64-bit Linux (Note: 7 th Gen CPUs only support Windows 10 64-bit & Linux)

► TECHNICAL INFORMATION (CONTINUED)

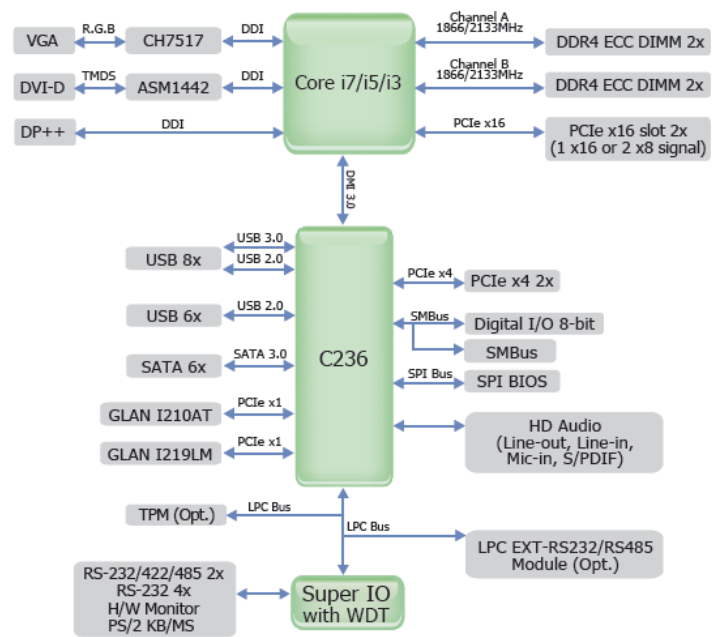
DISPLAY	1 x VGA 1 x DVI-I (DVI-D signal) 1 x DP++ VGA: resolution up to 1920x1200 @ 60Hz DVI-I: resolution up to 1920x1200 @ 60Hz DP++: resolution up to 4096x2160 @ 60Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DVI-I (DVI-D signal) + DP++
REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/power (DB-9) 4 x USB 3.0 2 x USB 2.0 1 x PS/2 (mini-DIN-6) 1 x VGA 1 x DVI-I (DVI-D signal) 1 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) 4 x USB 3.0 (2.00mm pitch) 4 x USB 2.0 (2.54mm pitch)
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	1x external 3.5" drive bay for 3.5" or 2.5" drives 1x 5.25" Drive Bay
MOTHERBOARD MTBF	374,618 hrs @ 25°C; 211,926 hrs @ 45°C; 133,291 hrs @ 60°C Calculation Model: Telcordia Issue 2, Method Case 3 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
	Relative Humidity: 5~85%, non-condensing*
	Vibration: 15 G 11 ms duration Non-operating: 30 G 11 ms duration*
COOLING	2x removable 7cm ball-bearing fans
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS	482 (W) x 490 (D) x 88 (H); 19" (W) x 19.29 (D) x 3.46" (H)

*Dependent on configuration

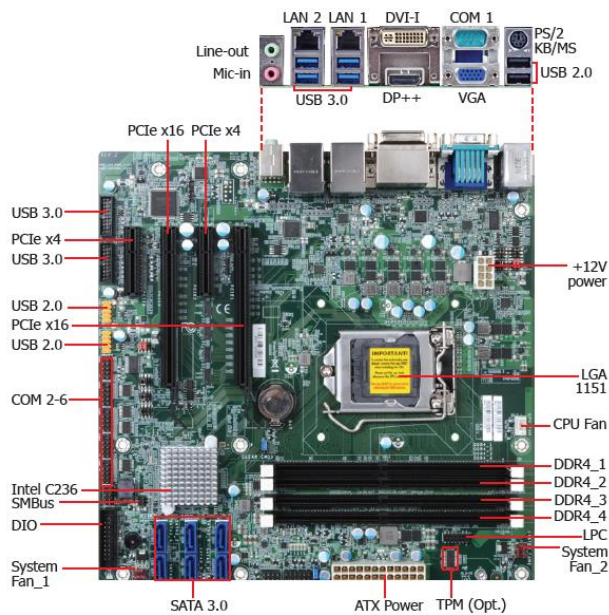
MECHANICAL DRAWING



BLOCK DIAGRAM



MOTHERBOARD LAYOUT



OTHER PICTURES

Front view with door open



Front view with door closed



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