

ICOM4118

Industrial 4U Rackmount Xeon/8/9th Gen System



ICOM4118

PRODUCT HIGHLIGHTS

- ▶ 4U 19" 18.58" Deep Rackmount system
- ▶ Life Cycle Support Until Q2' 33
- ▶ Industrial motherboard based solution
- ▶ Supports Intel Xeon®/8th/9th Gen Intel® Core™ with Intel® C246 chipset
- ▶ 4 DDR4 DIMM up to 128GB (ECC/non ECC)
- ▶ Expansion for 1 PCIe x16, 3 PCIe x4, 2 PCI, 1 Mini PCIe, 1 M.2 M key, 1 SMBus, 1 LPC
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 2 USB 3.1 Gen 2, 4 USB 3.1 Gen 1, 7 USB 2.0
- ▶ Front to back cooling with two low noise hot-swap system fans



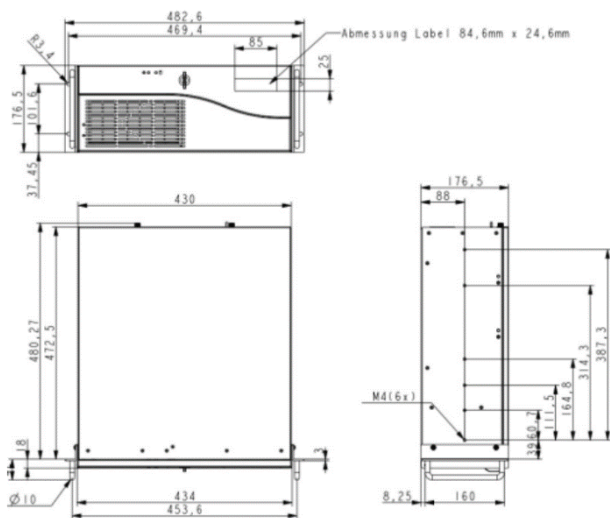
TECHNICAL INFORMATION

PROCESSOR	8th Generation Intel® Core™/Pentium®/Celeron® LGA 1151 Socket 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 (Non-LTS) 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-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™ 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 ECC/Non-ECC DIMM up to 128GB Dual Channel DDR4 2400/2666MHz (ECC/non ECC)
BIOS	SPI 128Mbit
STORAGE	Supports 3x 5.25" SATA drive bays Supports 4 x SATA 3.0, 1 x Mini PCIe (PCIe/mSATA, share w/SATA conn. as opt./USB2.0) 1 x M.2 2242/2280 M key (PCIe x4 NVMe, Intel Optane Memory Support) Supports 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	1 x PCIe x16 (Gen 3) (x8/x8 signals as opt., MOQ required) 3 x PCIe x4 (Gen 3) 2 x PCI 1 x Mini PCIe (PCIe/mSATA, share w/SATA conn. as opt./USB2.0) 1 x M.2 2242/2280 M key (PCIe x4 NVMe, Intel Optane Memory Support)
POWER SUPPLY OPTIONS	400W ~ 600W, 90~250VAC, DC 12~48V 500W Redundant Power Supplies
AUDIO	Realtek ALC888
ETHERNET	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT12.0 (10/100/1000Mbps) (only Xeon/i7/i5 supports iAMT)
OPERATING SYSTEMS SUPPORTED	Windows 10 IoT Enterprise 64-bit Linux

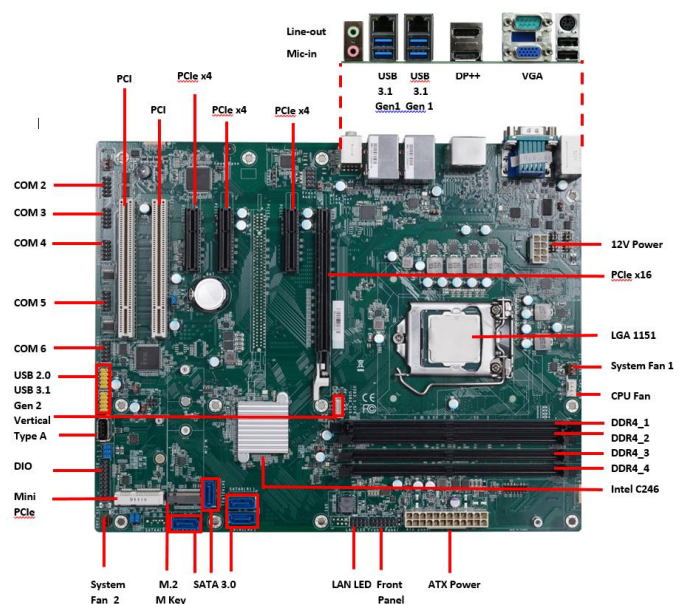
TECHNICAL INFORMATION (CONTINUED)

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) 4 x USB 3.1 (Gen1) 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	5 x RS-232 (2.54mm pitch) 2 x USB 3.1 Gen2 (2.00mm pitch) 5 x USB 2.0 (2.54mm pitch) (4 x Pin Header, 1 x USB2.0 vertical Type A)
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	3x 5.25" SATA drive bays, 1x 2.5" / 3.5" SATA drive internal
MOTHERBOARD MTBF	582,202 hrs @ 25°C; 332,716 hrs @ 45°C; 207,812 hrs @ 60°C Calculation model: Telcordia Issue 4 Environment: GB, GC – Ground Benign, Controlled
ENVIRONMENT	Operation Temperature: 0 °C to +50 °C continuous operation Storage Temperature: -20 °C to +70 °C Humidity: 10 % to 93 % @40 °C, non-condensing (Dependent on overall system specification)
VIBRATION	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis
COOLING	Removable air filter, Two low noise hot-swap system cooling fans
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	177 x 482 x 472 mm (4U x 19" x 18.58")

MECHANICAL DRAWING



MOTHERBOARD DETAILS



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