

ICOM348

3U 8th/9th Gen Industrial System



ICOM348

PRODUCT HIGHLIGHTS

- ▶ 3U Industrial Shallow Depth 381.0mm Rackmount System
- ▶ Intel 8th/9th Gen Intel® Core™ with Intel® Q370
- ▶ System supports 7 expansion slots
- ▶ 4 DDR4 DIMM up to 128GB
- ▶ Multiple expansion: 2 PCIe x16, 3 PCIe x4, 1 PCIe x1, 1 PCI, 1 Mini PCIe, 1 M.2 M key
- ▶ Supports 3 independent displays
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 6 USB 3.1, 6 USB 2.0
- ▶ 15-Year CPU Life Cycle Support Until Q4' 33 (Based on Intel IOTG Roadmap)



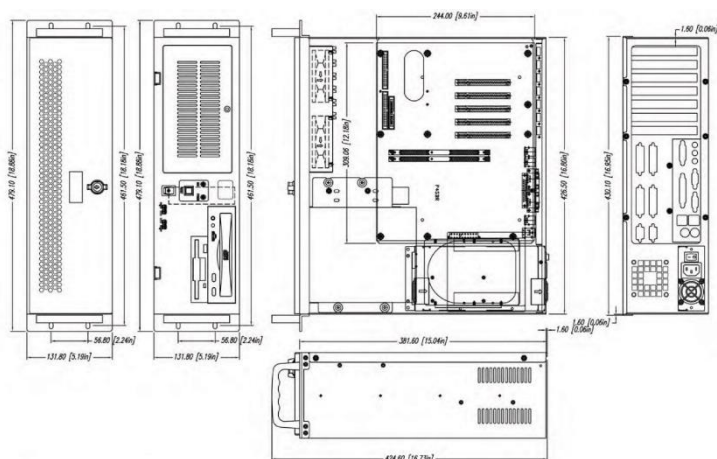
TECHNICAL INFORMATION

PROCESSOR	8th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Processors: 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® 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® Q370 Chipset
MEMORY	Four 288-pin DIMM up to 128GB Dual Channel DDR4 2400/2666MHz
BIOS	AMI 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: 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 x 4 NVMe/SATA) 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
POWER SUPPLY OPTIONS	1U form factor 350w to 500w AC 1U form factor DC 12~48V
AUDIO	Realtek ALC888
ETHERNET	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT12.0 (10/100/1000Mbps) (only Core i7/i5 supports iAMT)
OPERATING SYSTEMS SUPPORTED	Windows 10 Pro 64-bit Windows 10 IoT Enterprise 64-bit Linux

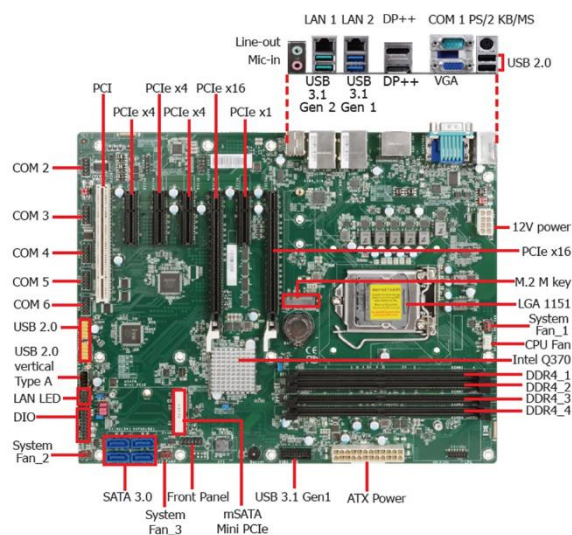
TECHNICAL INFORMATION (CONTINUED)

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) 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	Supports 4 x 3.5" drive bays & 1 x 5.25" drive bay
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	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



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