

ICOM381

3U 10th Gen Industrial System



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PRODUCT HIGHLIGHTS

- ▶ 3U Industrial Rackmount System
- ▶ Intel 10th Gen Intel® Core Processors with Q470E chipset
- ▶ System supports 7 expansion slots
- ▶ 4 DDR4 UDIMM up to 128GB
- ▶ Multiple expansion: 1 PCIe x16, 1 PCIe x4, 5 PCI, 1 M.2 M key, 1 M.2 E key
- ▶ 3 independent displays: VGA + DP++ + HDMI
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 13 USB
- ▶ 15-Year CPU Life Cycle Support Until Q2' 34 (Based on Intel IOTG Roadmap)



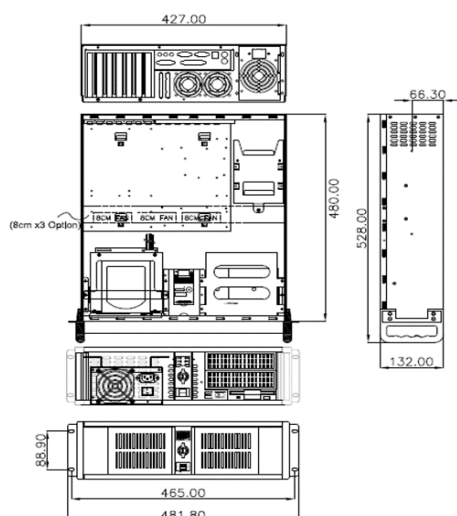
TECHNICAL INFORMATION

PROCESSOR	10th Generation Intel® LGA 1200 Socket Processors, TDP support up to 125W Intel® 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® Q470E Chipset
MEMORY	Four 288-pin up to 128GB Dual Channel DDR4 2400/2666/2933MHz
BIOS	Insyde SPI 256Mbit
STORAGE	Supports 2 x external 3.5" drive bays & 1 x internal 3.5" drive bay Supports 4 x 5.25" drive bays Supports RAID 0/1/5/10 & 6 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 PCIe x16 (Gen 3) 1 x PCIe x4 (Gen 3) 5 x PCI Up to 2 x M.2 2242/2260/2280 M key (PCIe Gen3 x4 NVMe/SATA/Intel® Optane Memory support, one port shared with PCIe x4 slot as option, MOQ required) 1 x M.2 E 2230 Key (PCIe Gen3 x2/USB 2.0)
POWER SUPPLY OPTIONS	2U form factor 350w to 700w Hot-Swap Redundant 90~250VAC DC 12~48V
AUDIO	Realtek ALC888
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 Pro 64-bit Windows 10 IoT Enterprise 64-bit Linux Ubuntu 20.04
DISPLAY	1 x VGA, 1 x DP++ 1 x HDMI 1.4b VGA resolution up to 1920x1200 @ 60Hz DP++ resolution up to 4096x2160 @ 60Hz HDMI: resolution up to 4096x2160 @ 24Hz

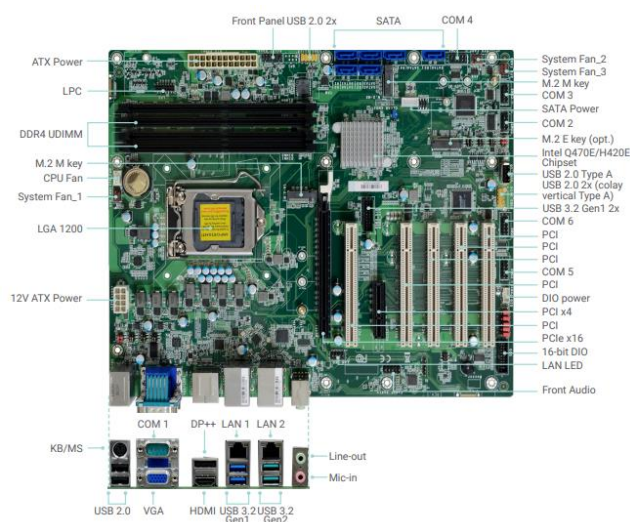
TECHNICAL INFORMATION (CONTINUED)

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 & 2 x USB 2.0 1 x PS/2 (mini-DIN-6) 1 x VGA & 1 x DP++ & 1 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 & 4 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 3 x 3.5" drive bays & 4 x 5.25" drive bays
MOTHERBOARD MTBF	504,168 hrs @ 25°C ; 278,849 hrs @ 45°C ; 172,277 hrs @ 60°C ; 146,454 hrs @ 65°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 filters 1x 6cm cooling fan (Optional: Additional 1x 6cm cooling fan & 3x 8cm cooling fans)
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	482.6 (W) x 528.3 (D) x 133.3 (H); 19" (W) x 20.8 (D) x 5.25" (H)

MECHANICAL DRAWING



MOTHERBOARD DETAILS



3U CHASSIS DETAILS



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