

ICOM278

Industrial 2U Rackmount 10th Gen System



ICOM278

PRODUCT HIGHLIGHTS

- ▶ 2U 19" 16.9" Deep Rackmount system with 5 expansion slots
- ▶ Industrial PICMG1.3 Single Board Computer system
- ▶ Supports Intel® 10th Gen Core™ with Intel® Q470E chipset
- ▶ 4 DDR4 SO-DIMM up to 128GB
- ▶ PCIe and PCI backplane options
- ▶ System available in Black, Silver or Custom colour
- ▶ Supports 3 independent displays: DVI-D, HDMI and VGA
- ▶ 15-Year CPU Life Cycle Support Until Q1' 33 (Based on Intel IOTG Roadmap)



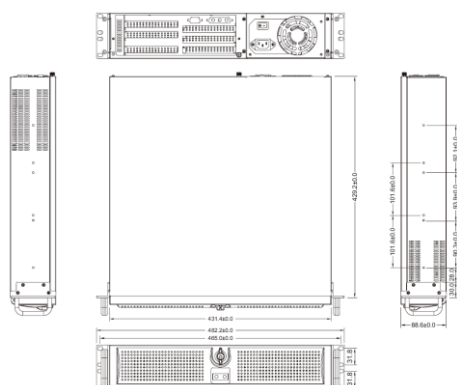
TECHNICAL INFORMATION

PROCESSOR	10th Generation Intel® LGA 1200 Socket Processors, TDP support up to 65W 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 DIMM up to 128GB Supports Non-ECC memory
BIOS	AMI UEFI BIOS
STORAGE	Supports 2 x 3.5" drive bays in removable hot-swap frames Supports 1 x Slimline DVD Supports RAID 0/1/5/10 5 x SATA 3.0 ports (Dual ports via Backplane) 1 x M.2 Type M 2280 (On bottom side)
OPTICAL	Optional DVD±RW (±R DL) / DVD-RAM drive
WATCHDOG TIMER	Programmable watchdog timer, time out period from 0.5 sec to 254.5 secs.
EXPANSION SLOTS	System supports 6 slot butterfly backplanes: Option 1: 5-slot [PCIe x16 (1), PCIe x4 (1), PCI (3)] Option 2: 5-slot [PCIe x16 (1) PCIe x1 (4)]
POWER SUPPLY OPTIONS	400W ~ 600W 90~250VAC DC 12~48V Redundant Power Supplies
AUDIO	Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit Realtek ALC888S HDA codec, 7.1 channels one on board audio pin header
ETHERNET	Intel® WGI219LM + WGI210AT Gigabit Ethernet controller Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet PCI Express x1 interface based on Gigabit Ethernet Dual RJ-45 connectors with two LED indicators
OPERATING SYSTEMS SUPPORTED	Windows 10 Pro Windows 10 IoT Enterprise 64-bit Linux

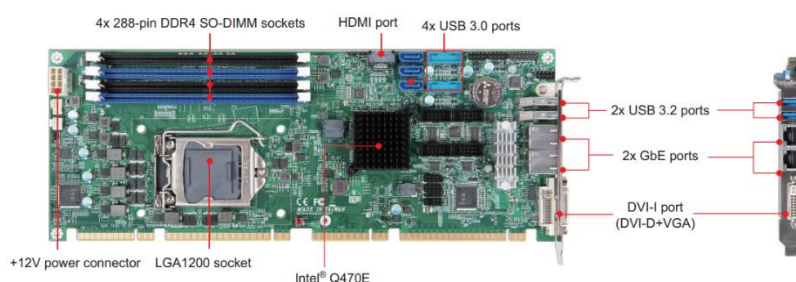
► TECHNICAL INFORMATION (CONTINUED)

MULTI-DISPLAY OUTPUTS	Supports independent triple displays: VGA on bracket: Resolution up to 1920x1200 @ 60Hz DVI-D on bracket: up to 1920x1200 @ 60Hz (VGA + DVI-D on bracket by DVI-I port) HDMI on board: up to 4096x2160 @ 30Hz
REAR I/O PORTS	2 x USB 3.2 2 x LAN 1 x DVI-I (DVI-D + VGA)
OPTIONAL PORT EXPANSION FROM SBC	4 x USB 2.0 ports (through backplane) 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges 4 x USB 3.2(Gen2) ports on board 10Gbps bus capable of high-speed/ full-speed/low-speed data ranges 2 x USB 3.2(Gen2) ports on bracket 10Gbps bus capable of high-speed/ full-speed/low-speed data ranges
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	2 x 3.5" SATA & 1 x 5.25" Slimline drive bays
MOTHERBOARD MTBF	Over 100,000 hours at 40°C
ENVIRONMENT	Operating temperature: 0°C to 60°C Storage temperature: -20°C to 80°C Relative humidity: 5~90%, non-condensing (Dependant of overall system specifications)
COOLING	Replaceable air filter Two 7cm ball-bearing cooling fans
COLOUR	Black or Silver (all other optional colours are available upon request)
DIMENSIONS:	482 (W) x 429.2 (D) x 88.6 (H); 19" (W) x 16.9 (D) x 3.5" (H)

► MECHANICAL DRAWING



► SINGLE BOARD COMPUTER DETAILS



► Company Address

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