

ICOM714

Industrial Wallmount/Desktop 10th Gen System



ICOM714

PRODUCT HIGHLIGHTS

- ▶ Wallmount/Desktop ATX motherboard system
- ▶ Life Cycle Support Until Q2' 34
- ▶ Industrial motherboard based solution
- ▶ Supports Intel 10th Gen Intel® Core™ with Intel® Q470E chipset
- ▶ 4 DDR4 UDIMM up to 128GB
- ▶ Expansion for 1 PCIe x16, 1 PCIe x4, 5 PCI, 1 M.2 M key, 1 M.2 E key
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 13 USB
- ▶ 12cm ball-bearing fan with replaceable filter



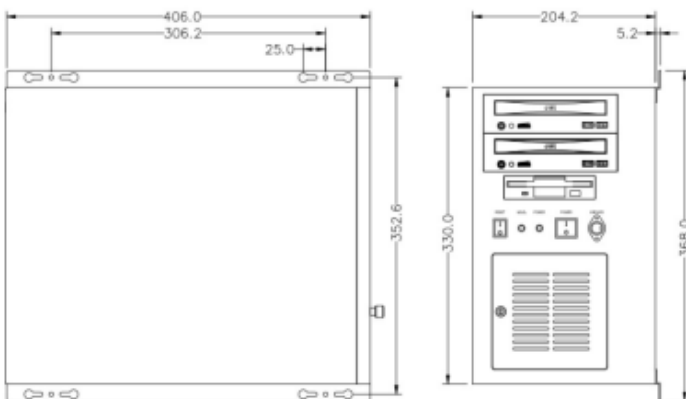
TECHNICAL INFORMATION

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	SPI 128Mbit
STORAGE	Supports 2x external 5.25", 1x external 3.5" & 1x internal 3.5" drive bays Supports 6 x SATA 3.0 Supports RAID 0/1/5/10 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) 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) 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	400W ~ 600W 90~250VAC DC 12~48V Redundant Power Supplies
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 IoT Enterprise 64-bit Linux Ubuntu 20.04

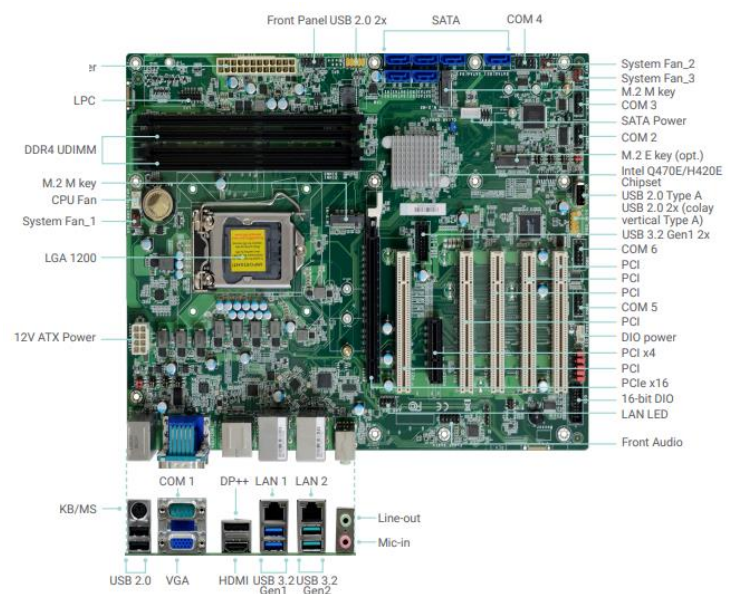
TECHNICAL INFORMATION (CONTINUED)

DISPLAY	1 x VGA, VGA: resolution up to 1920x1200 @ 60Hz 1 x DP++, DP++: resolution up to 4096x2160 @ 60Hz 1 x HDMI 1.4b, HDMI: resolution up to 4096x2160 @ 24Hz
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 x 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	PS/2 keyboard connector in front panel Optional USB ports
DRIVE BAYS	2 x external 5.25" 1 x external 3.5" 1 x internal 3.5"
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 °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)
COOLING	12cm ball-bearing fan with replaceable filter
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	330 x 406 x 204.2 mm (13 x 16 x 8 inches)

MECHANICAL DRAWING



MOTHERBOARD DETAILS



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