

# ICOM713

## Industrial Wallmount/Desktop 10th Gen System

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# ICOM713

## 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® H420E chipset
- ▶ 2 DDR4 UDIMM up to 64GB
- ▶ Expansion for 1 PCIe x16, 1 PCIe x4, 5 PCI
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 10 USB
- ▶ 12cm ball-bearing fan with replaceable filter



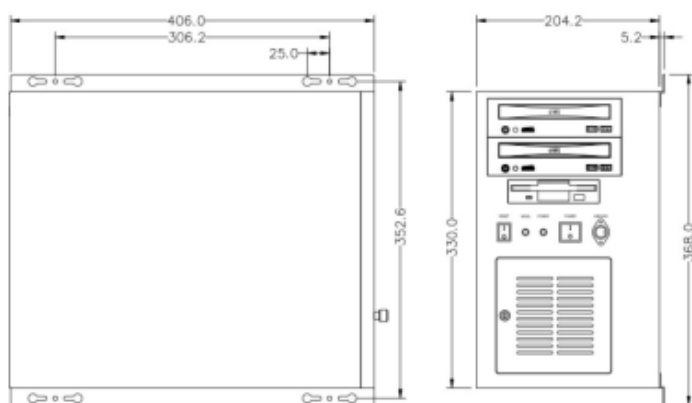
## TECHNICAL INFORMATION

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROCESSOR</b>                   | 10th Generation Intel® LGA 1200 Socket Processors, TDP support up to 125W<br>Intel® Core™ i9-10900E (10 Cores, 20M Cache, up to 4.7 GHz); 65W<br>Intel® Core™ i9-10900TE (10 Cores, 20M Cache, up to 4.5 GHz); 35W<br>Intel® Core™ i7-10700E (8 Cores, 16M Cache, up to 4.5 GHz); 65W<br>Intel® Core™ i7-10700TE (8 Cores, 16M Cache, up to 4.4 GHz); 35W<br>Intel® Core™ i5-10500E (6 Cores, 12M Cache, up to 4.2 GHz); 65W<br>Intel® Core™ i5-10500TE (6 Cores, 12M Cache, up to 3.7 GHz); 35W<br>Intel® Core™ i3-10100E (4 Cores, 6M Cache, 3.8 GHz); 65W<br>Intel® Core™ i3-10100TE (4 Cores, 6M Cache, to 3.6 GHz); 35W<br>Intel® Pentium® G6400E (2 Cores, 4M Cache, 3.8 GHz); 58W<br>Intel® Pentium® G6400TE (2 Cores, 4M Cache, 3.2 GHz); 35W<br>Intel® Celeron® G5900E (2 Cores, 2M Cache, 3.2 GHz); 58W<br>Intel® Celeron® G5900TE (2 Cores, 2M Cache, 3.0 GHz); 35W |
| <b>CHIPSET</b>                     | Intel® H420E Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MEMORY</b>                      | Two 288-pin up to 128GB<br>Dual Channel DDR4 2400/2666/2933MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>BIOS</b>                        | SPI 128Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>STORAGE</b>                     | Supports 2x external 5.25", 1x external 3.5" & 1x internal 3.5" drive bays<br>Supports 4 x SATA 3.0<br>1 x M.2 M Key (PCIe x4 NVMe share with PCIe x4 slot, opt., MOQ required)<br>Optional removable hard disk drives or solid state disks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>OPTICAL</b>                     | DVD±RW (±R DL) / DVD-RAM drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>WATCHDOG TIMER</b>              | Programmable via S/W from 1 sec. to 255 sec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>EXPANSION SLOTS</b>             | 1 x PCIe x16 (Gen 3)<br>1 x PCIe x4 (Gen 3)<br>5 x PCI<br>1 x M.2 M Key (PCIe x4 NVMe share with PCIe x4 slot, opt., MOQ required)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>POWER SUPPLY OPTIONS</b>        | 400W ~ 600W<br>90~250VAC<br>DC 12~48V<br>Redundant Power Supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AUDIO</b>                       | Realtek ALC888                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ETHERNET</b>                    | 1 x Intel® I211AT PCIe (10/100/1000Mbps)<br>1 x Intel® I219LM/I219V with iAMT12.0 (10/100/1000Mbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OPERATING SYSTEMS SUPPORTED</b> | Windows 10 IoT Enterprise 64-bit<br>Linux Ubuntu 20.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

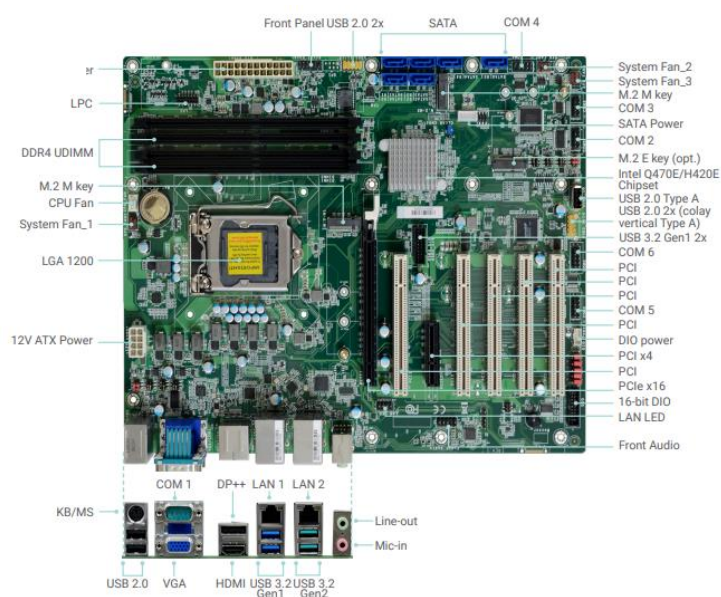
## TECHNICAL INFORMATION (CONTINUED)

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|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISPLAY</b>                                  | 1 x VGA, VGA: resolution up to 1920x1200 @ 60Hz<br>1 x DP++, DP++: resolution up to 4096x2160 @ 60Hz<br>1 x HDMI 1.4b, HDMI: resolution up to 4096x2160 @ 24Hz                                                            |
| <b>MULTI-DISPLAY OUTPUTS</b>                    | Supports Dual Displays: VGA + DP++, VGA + HDMI, DP++ + HDMI                                                                                                                                                               |
| <b>REAR I/O PORTS</b>                           | 2 x GbE (RJ-45)<br>1 x RS-232/422/485 (RS-232 w/power (DB-9)<br>4 x USB 3.2 Gen 1 & 2 x USB 2.0<br>1 x PS/2 (mini-DIN-6)<br>1 x VGA<br>1 x DP++<br>1 x HDMI<br>1 x Line-out, 1 x Mic-in, 1 x Line-in (opt., MOQ required) |
| <b>OPTIONAL PORT EXPANSION FROM MOTHERBOARD</b> | 1 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch)<br>4 x RS-232 (2.54mm pitch)<br>2 x USB 3.2 Gen 1<br>2 x USB 2.0 (2.54mm pitch, Colay vertical Type A, opt.: MOQ required)                                            |
| <b>FRONT CHASSIS CONNECTORS</b>                 | PS/2 keyboard connector in front panel<br>Optional USB ports                                                                                                                                                              |
| <b>DRIVE BAYS</b>                               | 2 x external 5.25"<br>1 x external 3.5"<br>1 x internal 3.5"                                                                                                                                                              |
| <b>MOTHERBOARD MTBF</b>                         | 521,024 hrs @ 25°C ; 292,119 hrs @ 45°C ; 181,960 hrs @ 60°C ; 155,038 hrs @ 65°C<br>Calculation Model: Telcordia Issue 4<br>Environment: GB, GC - Ground Benign, Controlled                                              |
| <b>ENVIRONMENT</b>                              | Operation Temperature: 0 °C to +50 °C continuous operation<br>Storage Temperature: -20 °C to +70 °C<br>Humidity: 10 % to 93 % @40 °C, non-condensing<br>(Dependent on overall system specification)                       |
| <b>COOLING</b>                                  | 12cm ball-bearing fan with replaceable filter                                                                                                                                                                             |
| <b>COLOUR</b>                                   | Black (all other optional colours are available upon request)                                                                                                                                                             |
| <b>DIMENSIONS:</b>                              | 330 x 406 x 204.2 mm (13 x 16 x 8 inches)                                                                                                                                                                                 |

## MECHANICAL DRAWING



## MOTHERBOARD DETAILS



## Company Address

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