

ICOM738

Industrial mATX Wallmount/Desktop 10th Gen System



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PRODUCT HIGHLIGHTS

- ▶ Wallmount/Desktop mATX motherboard system
- ▶ Intel 10th Gen Intel® Core™ with Intel® Q470E
- ▶ 4 DDR4 DIMM up to 128GB
- ▶ Multiple expansion: 2 PCIe x16 (1 x16 or 2 x8 signal), 2 PCIe x4, 1 M.2 E key, 1 M.2 M key (support Optane Memory)
- ▶ 3 independent displays: DP++, + VGA, + HDMI 1.4b
- ▶ Rich I/O: 2 Intel GbE, 4 COM, 8 USB 3.2, 4 USB 2.0
- ▶ 15-Year CPU Life Cycle Support until Q2 '34 (Based on Intel IOTG Roadmap)
- ▶ 1 x 5.25" and 2 x internal 3.5" drive bays



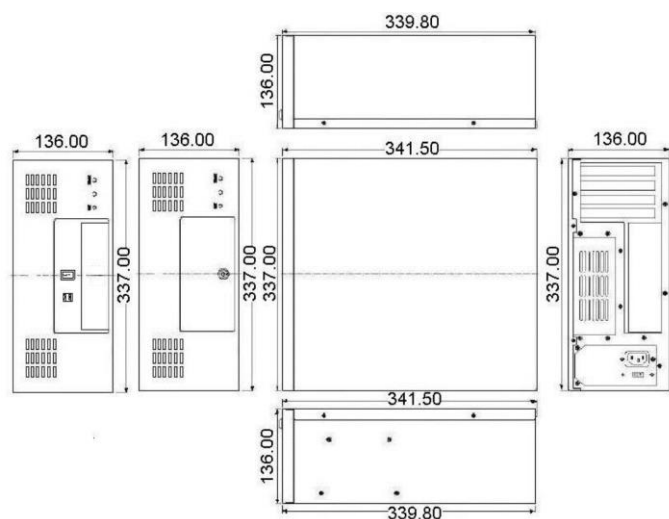
TECHNICAL INFORMATION

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 DIMM up to 128GB Dual Channel DDR4 2400/2666MHz
BIOS	AMI SPI 128Mbit
STORAGE	1x external 5.25" & 2x internal 3.5" drive bays Supports 4 x SATA 3.0 RAID 0/1/5/10 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	2 x PCIe x16 (Gen 3) (1 x16 signals or 2 x8 signals) 2 x PCIe x4 (Gen 3) 1 x M.2 2230 E key (PCIe x1/USB2.0/intel CNVi support) 1 x M.2 2242/2260/2280 M key (PCIe Gen3 x 4 NVMe)
POWER SUPPLY	400w SFX Industrial 100,000 MTBF power supply
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) 2 x Intel® i211AT PCIe (10/100/1000Mbps) (opt. by request, MOQ required)
OPERATING SYSTEMS SUPPORTED	Windows 10 IoT Enterprise 64-bit & Linux
DISPLAY	1 x DP++: resolution up to 4096x2106 @ 60Hz 1 x VGA: resolution up to 1920x1200 @ 60Hz 1 x HDMI 1.4b: resolution up to 4096x2160 @ 60Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DP++ + HDMI 1.4b

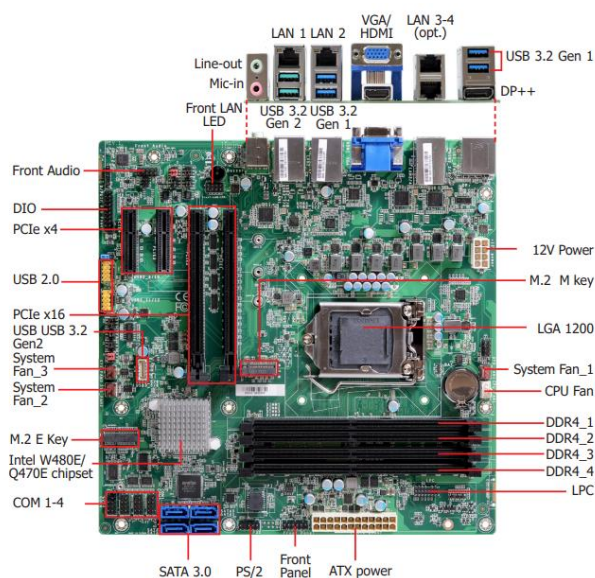
► TECHNICAL INFORMATION (CONTINUED)

REAR I/O PORTS	2 x GbE (RJ-45) 4 x GbE (RJ-45) (opt. by request, MOQ required) 2 x USB 3.2 Gen 2 4 x USB 3.2 Gen 1 1 x DP++ 1 x VGA 1 x HDMI 1 x Line-out, 1 x Mic-in, 1 x Line-in (Colay opt., MOQ required)
OPTIONAL PORT EXPANSION FROM MOTHERBOARD	2 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch) 2 x RS-232 4 x USB 2.0 (2.54mm pitch) (1 x USB 2.0 Colay vertical Type A) 2 x USB 3.2 Gen2
FRONT CHASSIS CONNECTORS	2 x USB ports on front panel
CHASSIS CONSTRUCTION	Heavy-duty Steel / 3mm aluminium front panel
DRIVE BAYS	1x external 5.25" & 2x internal 3.5" drive bays
SWITCHES	Power On/Off
INDICATORS	Power On/Off & HDD activity
MOTHERBOARD MTBF	TBD
ENVIRONMENT	Operating: 0 to 60°C Storage: -30 to 60°C with RTC battery; -40 to 85°C without RTC battery
COOLING	8cm ball-bearing fan
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	337 x 339.8 x 136 mm (13.26 x 13.4 x 5.36 inches)

► MECHANICAL DRAWING



► MOTHERBOARD DETAILS



► Company Address

Kontron UK Limited
Units 3, 4, 5, 9 & 10 New Bury Park
Marsh Lane, Easthampnett, UK
TEL: +44 (0) 1243 380780
uksales@kontron.com
www.industrial-computers.com