

ICOM729

Industrial mATX Wallmount/Desktop 8th/9th Gen System



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PRODUCT HIGHLIGHTS

- ▶ Wallmount/Desktop mATX motherboard system
- ▶ Intel 8th/9th Gen Intel® Xeon / Core™ with Intel® Q370
- ▶ 4 DDR4 up to 128GB
- ▶ Multiple expansion: 1 PCIe x16, 1 PCIe x4, 2 PCI
- ▶ 3 independent displays: VGA + DVI-D + DP++
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 6 USB 3.1, 6 USB 2.0
- ▶ 15-Year CPU Life Cycle Support Until Q2' 33 (Based on Intel IOTG Roadmap)
- ▶ 1 x 5.25" and 2 x internal 3.5" drive bays



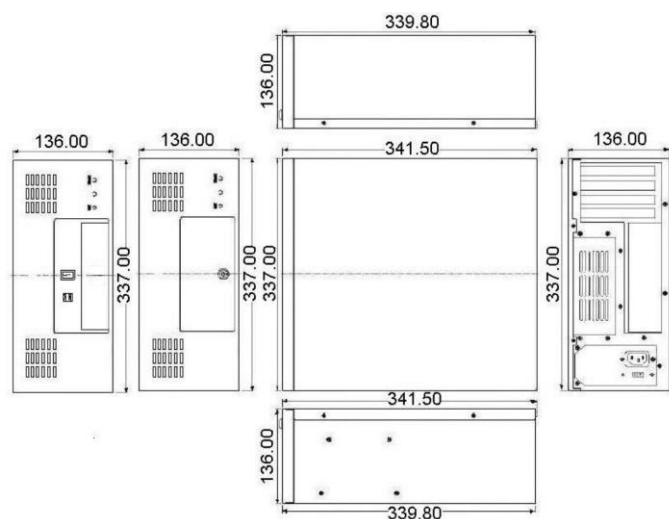
TECHNICAL INFORMATION

PROCESSOR	8th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Socket Processors: Intel® Core™ i7-8700K (6 Cores, 12M Cache, up to 4.7 GHz); 95W Intel® Core™ i7-8700 (6 Cores, 12M Cache, up to 4.6 GHz); 65W Intel® Core™ i7-8700T (6 Cores, 12M Cache, up to 4.0 GHz); 35W Intel® Core™ i5-8500 (6 Cores, 9M Cache, up to 4.1 GHz); 65W Intel® Core™ i5-8500T (6 Cores, 9M Cache, up to 3.5 GHz); 35W Intel® Core™ i3-8100 (4 Cores, 6M Cache, 3.6 GHz); 65W Intel® Core™ i3-8100T (4 Cores, 6M Cache, to 3.1 GHz); 35W Intel® Pentium® G5400 (2 Cores, 4M Cache, 3.7 GHz); 58W Intel® Pentium® G5400T (2 Cores, 4M Cache, 3.1 GHz); 35W Intel® Celeron® G4900 (2 Cores, 2M Cache, 3.1 GHz); 54W Intel® Celeron® G4900T (2 Cores, 2M Cache, 2.9 GHz); 35W 9th Generation Intel® Core™ LGA 1151 Socket Processors: Intel® Core™ i7-9700TE (8 Cores, 12M Cache, up to 3.8 GHz); 35W Intel® Core™ i5-9500E (6 Cores, 9M Cache, up to 4.2 GHz); 65W Intel® Core™ i5-9500TE (6 Cores, 9M Cache, up to 3.6 GHz); 35W Intel® Core™ i3-9100E (4 Cores, 6M Cache, 3.7 GHz); 65W Intel® Core™ i3-9100TE (4 Cores, 6M Cache, to 3.2 GHz); 35W
CHIPSET	Intel® Q370 Chipset
MEMORY	Four 288-pin DIMM up to 128GB Dual Channel DDR4 2400/2666 MHz
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	1 x PCIe x16 (Gen 3) 1 x PCIe x4 (Gen 3) 2 x PCI 1 x Full-size Mini PCIe (USB/PCIe/mSATA, PCIe by default)
POWER SUPPLY	400w SFX Industrial 100,000 MTBF power supply
AUDIO	Realtek ALC888S
ETHERNET	1 x Intel® i219LM PCIe (10/100/1000Mbps) with iAMT 12.0 (only Core i7/i5 supports iAMT) 1 x Intel® i211AT PCIe (10/100/1000Mbps)
OPERATING SYSTEMS SUPPORTED	Windows 10 64-bit Linux
DISPLAY	1 x VGA: resolution up to 1920x1200 @ 60Hz 1 x DVI-I (DVI-D signal): resolution up to 1920x1200 @ 60Hz 1 x DP++ : resolution up to 4096x2160 @ 60Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DVI-D + DP++

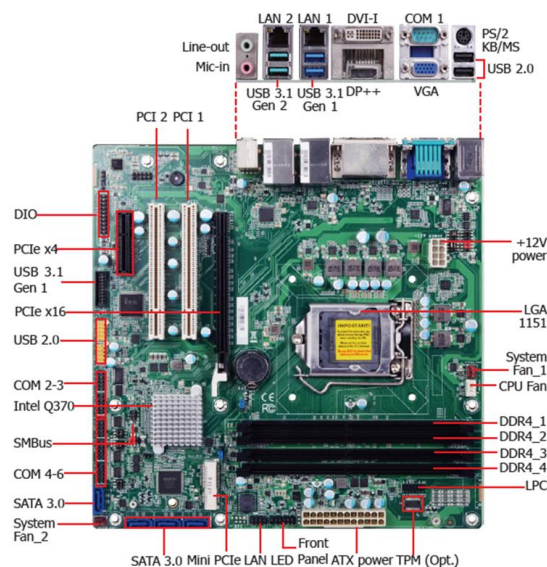
TECHNICAL INFORMATION (CONTINUED)

REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/power (DB-9) 2 x USB 3.1 Gen 2 & 2 x USB 3.1 Gen 1 & 2 x USB 2.0 1 x PS/2 (mini-DIN-6) 1 x VGA & 1 x DVI-I (DVI-D signal) & 1 x DP++ 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 x USB 3.1 Gen 1 (2.00mm pitch) 4 x USB 2.0 (2.54mm pitch)
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	535,676 hrs @ 25°C; 352,865 hrs @ 40°C ;303,603 hrs @ 45°C ;189,856 hrs @ 60°C Calculation Model: Telcordia Issue 4 Environment: GB, GC - Ground Benign, Controlled
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