

ICOM735

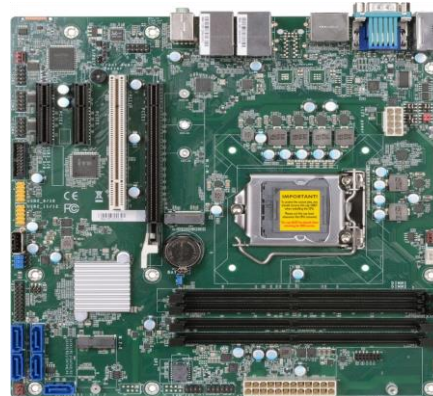
Industrial mATX Wallmount/Desktop 8th/9th Gen System



ICOM735

PRODUCT HIGHLIGHTS

- ▶ Wallmount/Desktop mATX motherboard system
- ▶ Intel 8th/9th Gen Intel® Core™ with Intel® Q370
- ▶ 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: DVI-D, + DP++, + HDMI 1.4b
- ▶ Rich I/O: 2 Intel GbE, 4 COM, 2 USB 3.1, 4 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



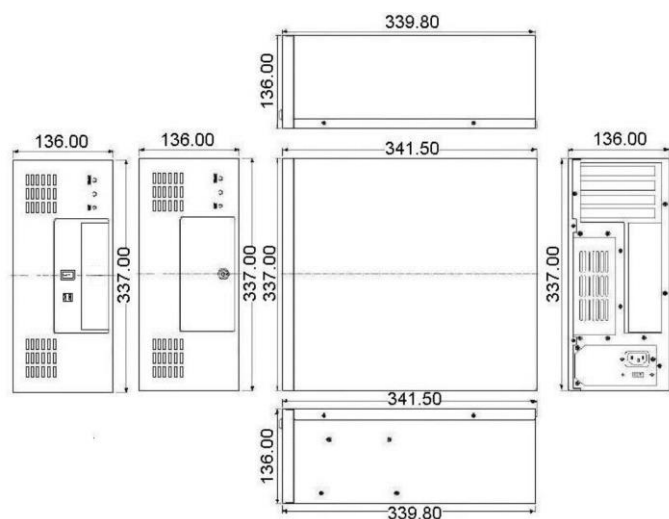
TECHNICAL INFORMATION

PROCESSOR	8th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Processors: Intel® Core™ i7-8700K (6 Cores, 12M Cache, up to 4.7 GHz); 95W (Non-LTS) 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™ i9-9900K (8 Cores, 16M Cache, up to 5.0 GHz); 95W (Non-LTS) Intel® Core™ i7-9700K (8 Cores, 12M Cache, up to 4.9 GHz); 95W (Non-LTS) Intel® Core™ i7-9700E (8 Cores, 12M Cache, up to 4.4 GHz); 65W 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 up to 128GB Dual Channel DDR4 2400/2666MHz
BIOS	AMI SPI 128Mbit
STORAGE	1x external 5.25" & 2x internal 3.5" drive bays Supports 6 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 ALC262-VC2
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)
OPERATING SYSTEMS SUPPORTED	Windows 10 IoT Enterprise 64-bit & Linux
DISPLAY	1 x DP++, DP++: resolution up to 4096x2106 @ 60Hz 1 x HDMI 1.4b: resolution up to 4096x2160 @ 24Hz 1 x DVI-I (DVI-D signal), DVI-D: resolution up to 1920x1200 @ 60Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: DVI-D + DP++ + HDMI 1.4b

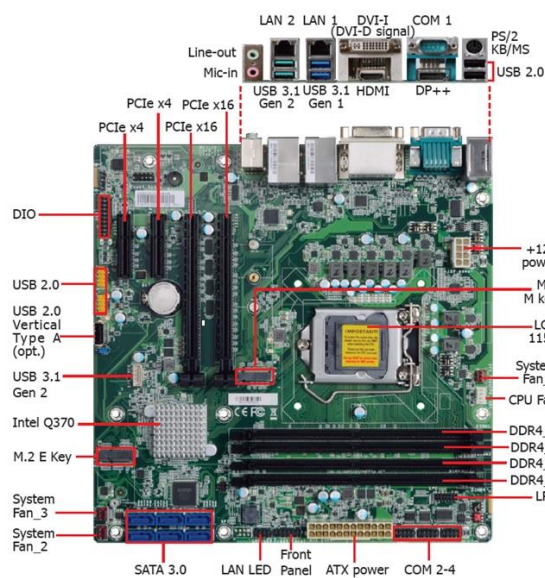
TECHNICAL INFORMATION (CONTINUED)

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 DVI-I (DVI-D signal) & 1 x DP++ & 1 x HDMI 1.4b 1 x Line-out, 1 x Mic-in, 1 x Line-in (Colay opt., MOQ required)
OPTIONAL PORT EXPANSION FROM MOTHERBOARD	1 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch) 2 x RS-232 2 x USB 3.1 Gen 2 & 4 x USB 2.0 (2.54mm pitch) (1 x USB 2.0 Colay vertical Type A) (opt., MOQ required)
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	548,936 hrs @ 25°C; 308,161 hrs @ 45°C ;191,020 hrs @ 60°C ;162,350 hrs @ 65°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



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