MC510-51

Industrial Intel 10th Gen Comet Lake Mini-ITX Computer

Combining efficient active cooling with Intel 10th Gen Core processing, the MC510-51 is ideal for compute intensive edge computing applications.

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Powered By 10th Gen Intel Comet Lake

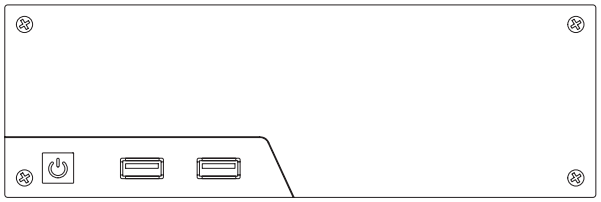
Powered by Intel 10th Gen Comet Lake Core processing, the MC510-51 has the power and capabilities you need for your project. The system can be configured with your choice of a Core i3/i5/i7 or i9 CPU, and can accommodate up to 64GB of RAM (contact us for more details about memory options).

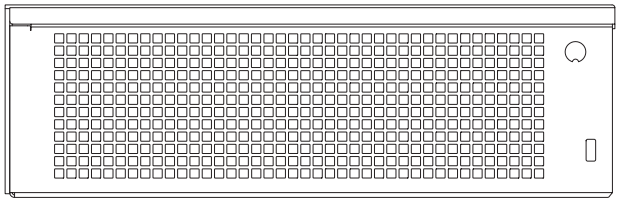
Industrial Grade Construction

With a compact, all-metal chassis designed for embedded applications, the MC510-51 keeps it's cool even while accomplishing the most compute-intensive tasks. Optional wall, DIN, and VESA mounting let you securely install the MC510-51 on virtually any vertical or horizontal surface.

The Connections You Need

Dual Gb LAN provides flexible networking, while its 4x USB 3.2 Gen 1 ports, HDMI and DisplayPort allow you to easily connect your displays and peripherals. The MC510-51 also features an M.2 M 2280, an M.2 E 2230 and a full size mPCIe slot to accommodate a wealth of expansion and storage options.





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System

Processor	Intel Comet Lake
Processor Speed	1.9 GHz 2 GHz 2.3 GHz 2.8 GHz 2.9 GHz 3 GHz
Processor Socket	LGA1200
Processor Generation	10th Generation
Processor Cores	Up to 10 (processor dependent)
Chipset	Intel H410
Graphics/GPU	Intel HD Graphics
Memory Type	DDR4 SO-DIMM (non-ECC)
Memory Capacity	64 GB
Memory Speed	2400 MHz 2666 MHz
Memory Slot Count	2
Number of Displays Supported	2

Rear I/O

Ethernet	2 Gb LAN ports
USB	4 USB 3.2 Gen 1 ports
Video	1 DisplayPort Connector 1 HDMI
Audio	2 Audio Jacks (Mic-in; Line-out)

Front I/O

USB	2 USB 2.0 ports
Other	Power button (DC Jack)
Port Punchouts	2 Serial 2 USB

Expansion & Features

Expansion Options	1 M.2 2230 slot 1 PCIe Mini Card slot (full/half height)
Storage Options	1 SATA M.2 M Key 2242/2260/2280 slot
LAN Controller	Intel I211-AT GbE Intel I219LM GbE
System Monitoring	Watchdog Timer
Input Voltage	12 VDC

Mechanical

Dimensions (WxHxD)	192.6 x 59.3 x 199.6 mm 7.6" x 2.35" x 7.86"
Case Type	Compact
Case Material	Aluminum Steel
Mounting Options	DIN-mount VESA-mount Wall-mount

Environmental & Regulatory

Operating Temperature	0 - 50°C
Certifications	FCC 47 CFR Part 15 CE RoHS 2 (2011/65/EU) RoHS 3 (2015/863/EU) EN 55022 EN 55024 EN 55032 EN 60950-1

Other

Compatible Cloud Services	AWS IoT Greengrass Compatible
Hardware Type	Edge Devices and IoT Gateways
Warranty	2 Year Limited Warranty on parts and services

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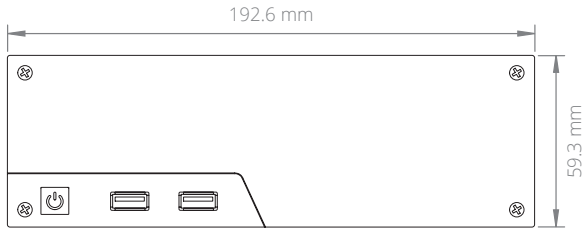
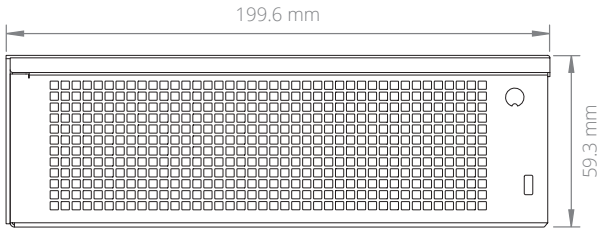
MC510-51 Dimensional Drawings

Industrial Mini-ITX Computer

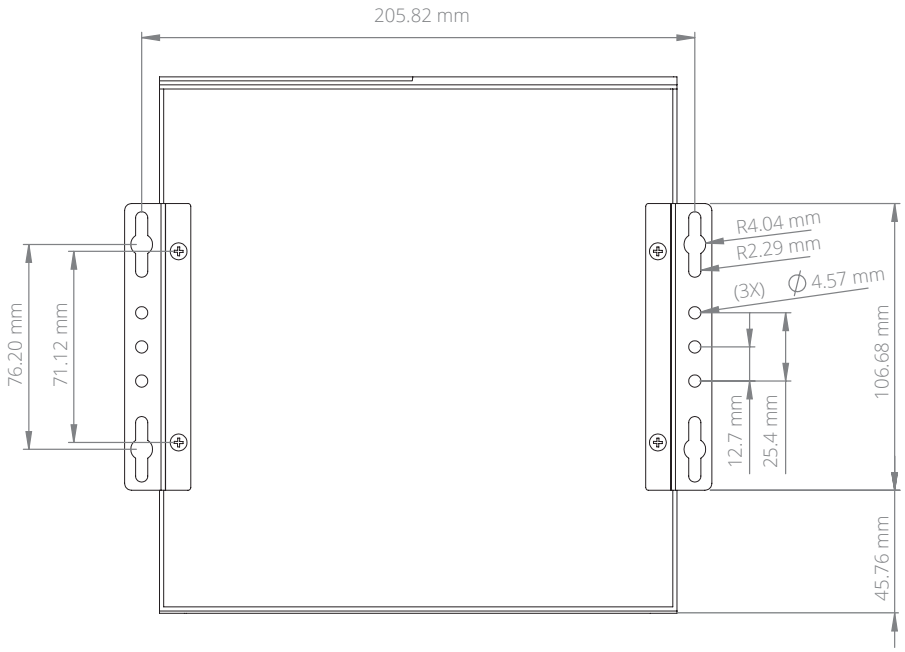
All measurements in mm



FRONT



SIDE



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