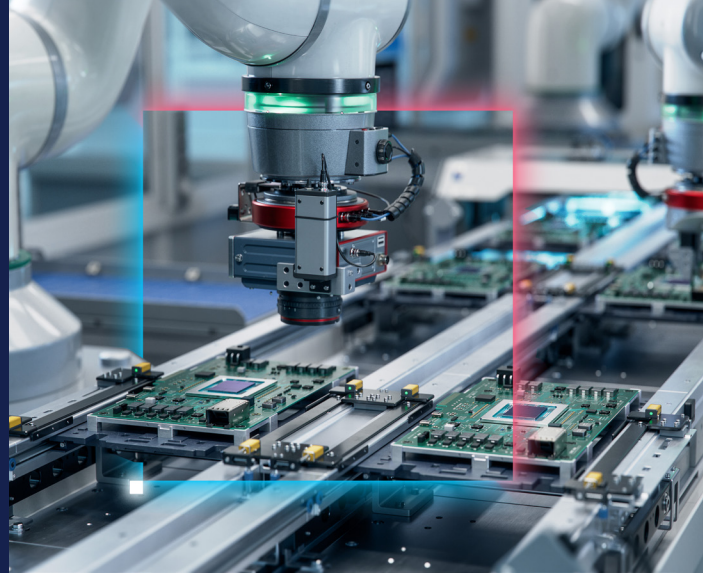


Reliable Edge Computing for AI and Industrial Automation



MC510-55

Actively Cooled Industrial PC with Intel® Core™ Processors

The OnLogic MC510-55 is an industrial edge computer designed to support AI inference, machine vision, and advanced automation workloads in demanding deployment environments. Configurable with Intel® Core™ processors (Series 2), the system can be tailored to meet diverse performance and application requirements. Leveraging Intel's performance hybrid architecture, the MC510-55 combines Performance-cores (P-cores) and Efficient-cores (E-cores) to efficiently allocate compute resources based on workload demands. P-cores are deployed to accomplish complex workloads, while E-cores deliver efficient multi-threaded throughput for background and less power-intensive operations. This architecture enables responsive, power-efficient processing across a wide range of edge workloads, including AI inferencing, data analysis, and industrial automation.

Combined with extensive I/O, multiple display support, and expansion options for wireless and cellular connectivity, the MC510-55 provides a flexible platform for deploying intelligent edge solutions.



**Reliable, versatile
industrial
computing
powered by
Intel® Core™
processors with a
5+ year embedded
lifecycle**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™
Processors (Series 2)



Intel® Ethernet



Intel® Iris® Xe
Graphics

Key Features

Empowered by Intel.



Industrial-Grade
Performance



Triple Display
Output



Industrial I/O
Connectivity



5+ Year
Embedded
Lifecycle

OnLogic MC510-55



intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ processors (Series 2)
Graphics	Intel® Iris® Xe graphics (Requires Dual Channel Memory)
Memory	DDR4 3200 MHz up to 64GB
Storage	2TB
Wireless Network	WIFI & 4G LT
LAN	2 × 2.5 Gigabit Intel® Ethernet Controller I225-LM/I225-V (2.5GbE) LAN ports
Operating/Storage Temp.	0°C ~ 40°C / -10°C ~ 85°C
Dimension (W x D x H)	7.58in x 2.33in x 7.86in
Weight	6.2lbs
OS	Windows and Linux
I/O Options	Front I/O: 1x Power button with LED indicator / 2x USB 2.0 Rear I/O: 2x Full size DisplayPort 1.4a++ / 1x HDMI 2.0b / 2x 2.5Gb LAN (2 x Intel) / 2x USB 3.2 (Gen2) / 2x USB 2.0 / 2x Audio (Mic-in, Line-out) / Optional 4x COM (2x RS-232/422/485, 2x RS-232) / DC-In Onboard I/O: 1x Battery on a cable / 1x LVDS Panel Connector - eDP Connector (on the Backside of PCB)

Learn More

[OnLogic MC510-55](#)

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