

MC610-55

OnLogic MC610-55 Intel® 13th Gen GPU Computer

The MC610-55 delivers ultra-reliable computing using Intel® 12th or 13th Generation performance hybrid processing. The system is ideal for real-time decision making in automation applications, with support for four simultaneous serial connections, available dedicated GPU, and an embedded lifecycle of at least 5 years.

onlogic.com/mc610-55



Intel 13th Gen Processing

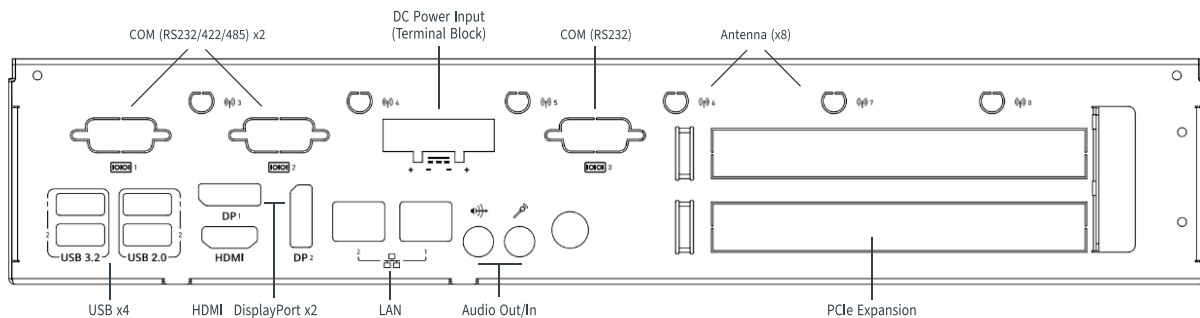
The MC610-55 can be configured with a range of Intel 12th or 13th Generation processors. By combining Performance and Efficiency Cores, Intel's performance hybrid architecture more efficiently distributes resources helping the MC610-55 to excel at Machine Learning, AI, and advanced automation tasks.

High-Speed & Legacy Serial Connectivity

Designed with industrial and embedded applications in mind, the MC610-55 utilizes an all-metal enclosure. Cross-case ventilation is optimized for low noise and reliable, 24/7 operation. RoHS, FCC, CE, and UL certifications all help provide peace of mind for the life of your project.

Highly Connectible & GPU-Capable

6x USB and 4x COM let you easily connect peripherals while HDMI and 2x DisplayPort give you triple display support. A pair of 2.5 Gigabit LAN ports provide fast networking while the MC610-55's onboard PCIe x16 (Gen 4) slot can be used to add a range of available GPUs and expansion cards.



US Office

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EU Office

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System

| | |
|------------------------------|---|
| Processor Generation | 12th and 13th Intel Alder Lake (12th), Raptor Lake (13th) Celeron, i3, i5, i7, i9Gen Intel Core i |
| Graphics | Iris Xe* *Requires Dual Channel Memory |
| Memory | DDR4 3200 MHz up to 64GB |
| Number of Displays Supported | 3 Independent Displays (1 x HDMI 2.0b, 2 x DP 1.4a, 1 x LVDS, 1 x eDP1.4b) |

Front I/O

| | |
|--------------|-----------------|
| Power Button | Backlit, On/Off |
| USB | 2x USB 2.0 |

Rear I/O

| | |
|-------------------|---|
| USB | 2x USB 3.2 (Gen2) 2x USB 2.0 |
| Ethernet | 2x 2.5 Gigabit LAN |
| Display | 1x HDMI 2.0b, 2 x DP 1.4a++ |
| Serial or CAN-Bus | 4x COM (2x RS-232), (2x RS-232/422/485) |
| Power | 12~28V Barrel Jack |
| Audio | 2x Audio Jack (Mic-in, Line-out) |

Storage, Expansion & Management

| | |
|-----------|---|
| Storage | 1x M.2 (Key M, 2242/2260/2280) with PCIe Gen3 x4 for SSD 2x SATA3 (6Gb/s) |
| Expansion | 1x PCIe x16 (Gen4) 1x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless 1x M.2 (Key B, 3042/3052) with PCIe x1, USB 3.2 Gen1, USB 2.0 and SIM for 4G/5G |

Mechanical

| | |
|---------------------|---------------------------------------|
| Dimensions (WxHxD) | 162mm x 271.6mm x 52mm |
| Case Type | Compact |
| Case Material | Aluminum Steel |
| Weight | 9.8lbs |
| Mounting Options | DIN-mount VESA-mount Wall-mount |
| Expected Life Cycle | 2024 thru 2029 |
| Hardware Type | Edge Devices and IoT Gateways |

Power Input

| | |
|---------|--|
| Source | 12~28V DC-In with 4-pin terminal block or DC Jack(Screw type) |
| Wattage | Max 504W via terminal block Max 280W via DC Jack (Screw type) |

Environmental & Regulatory

| | |
|-----------------------|--|
| Operating Temperature | 0 - 50°C |
| Certifications | UL/EN/IEC 62368-1 NRTL + CB UL/EN/IEC 60950-1 (UL E490677) NRTL + CB CISPR 32/EN 55032 CISPR 35/EN 55035 IEC 60601-1-2, 4th ed. - EMC Ready, FCC 47 CFR Part 15 Subpart B (Class A) Radio Equipment Directive (2014/53/EU) WEEE Directive (2012/19/EU) RoHS 3 (2015/863/EU) REACH |
| Countries of Use | US, Canada, UK, EU, Australia, China & New Zealand |

Other

| | |
|----------|---|
| Warranty | 2 Year Limited Warranty on parts and services |
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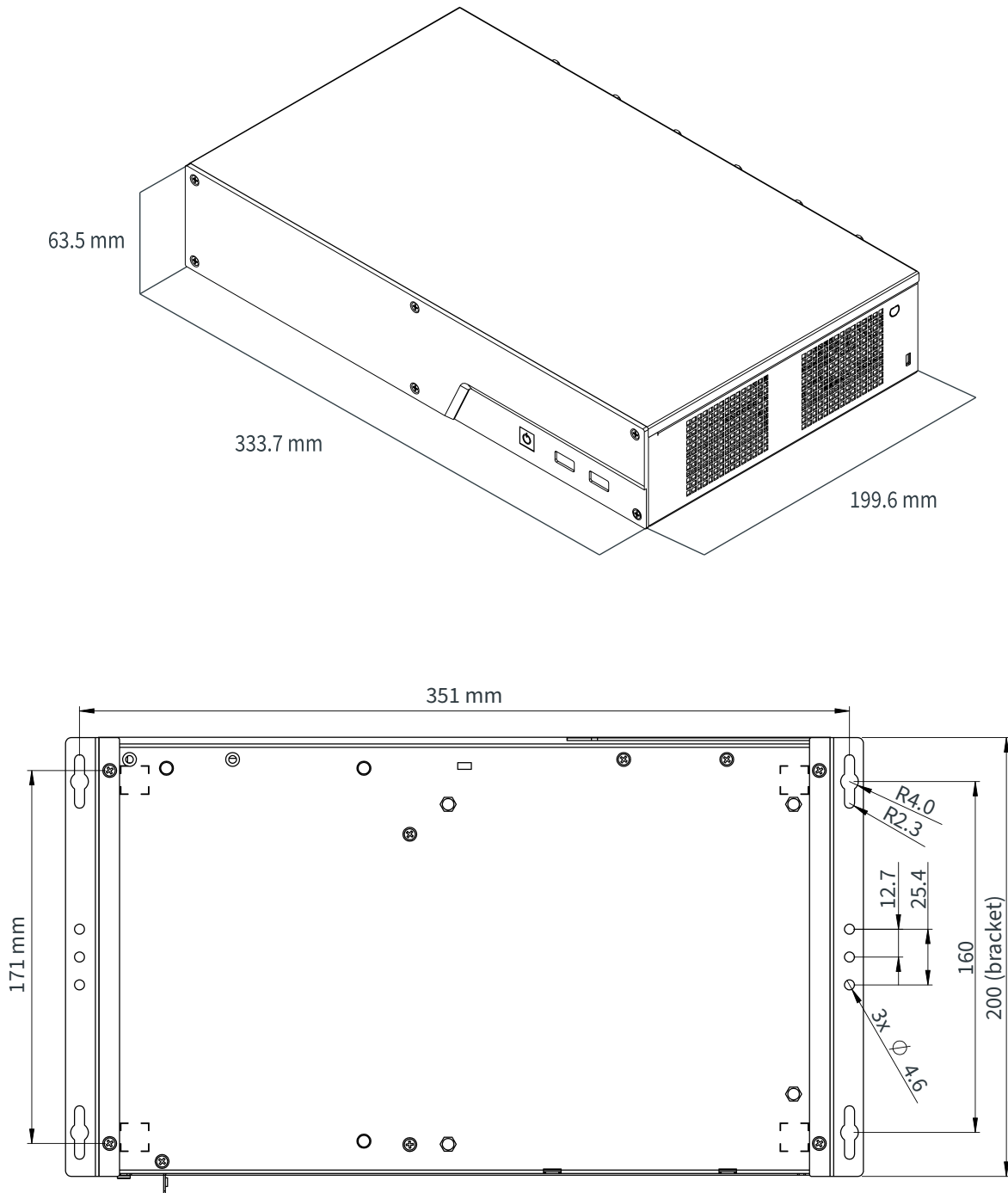
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MC610-55 Dimensional Drawings

OnLogic MC610-55 Intel® 13th Gen GPU Computer

All measurements in mm



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