ML100G-53

Industrial Fanless Intel® 11th Gen Tiger Lake NUC

The ML100G-53 industrial Intel Tiger Lake NUC offers quad-display support, Intel Iris® Xe graphics and the protection of OnLogic Hardshell™ Technology.

onlogic.com/ml100g-53

Powerful Processing Built For AI

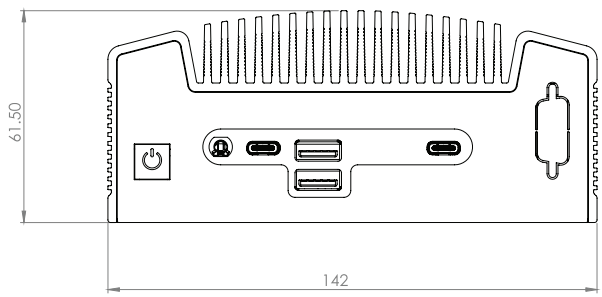
The ML100G-53 is powered by your choice of the Dual-Core Intel® Celeron® 6305E or Core™ i3-1115G4 processors, or the Quad-Core i5-1135G7 or i7-1165G7 processors (all formerly known as Tiger Lake). Built for high performance computing, AI applications and flexible multitasking, the M100G-53 also boasts impressive graphics capabilities thanks to Intel's new Iris® Xe Graphics engine (available on the i5 and i7), and up to 32GB of dual channel DDR4 memory. Meanwhile, onboard TPM helps to ensure your data is secure.

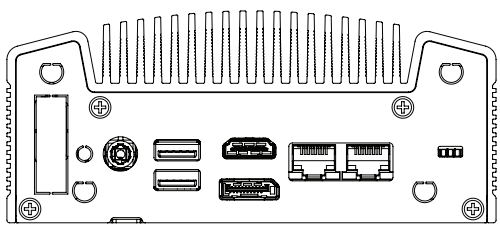
Engineered To Survive At The Edge

Solid-state industrial components and the removal of moving parts significantly extend the lifespan of the system while versatile mounting options allow the ML100G-53 to fit into space-constrained applications. Our Hardshell™ Fanless Technology is optimized for reliable passive cooling and protects the system from dust, debris, chemical and moisture ingress. Power input of 12-19 VDC, a wide operating temperature range, and a variety of installation options, mean you can install the ML100G-53 wherever you need it.

Quad-Display Capable

The ML100G-53 is designed to power your project with versatile connectivity and impressive networking capabilities. 4 x USB 3.2 Gen 2 (Type-A), 2 x USB 3.2 Gen 2 (Type-C), HDMI and DisplayPort support up to 4 simultaneous 4k displays. One Gigabit LAN port and one 2.5 Gigabit LAN port provide blazing fast data transfer to your network or the cloud, while onboard COM lets you connect legacy equipment.





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ONLOGIC

System

Processor	Intel 11 Gen (Tiger Lake-UP3)
Processor Speed	1.8 GHz 4.10 GHz 4.20 GHz 4.70 GHz
Processor Socket	Onboard (BGA)
Processor Generation	Tiger Lake
Processor Cores	2 4
Chipset	Intel MCP
Graphics/GPU	Intel UHD Graphics Intel Iris XE Graphics
Memory Type	DDR4
Memory Capacity	32 GB
Memory Speed	3200 MHz
Memory Slot Count	1
Number of Displays Supported	4

Rear I/O

USB	2x USB 3.2 Gen 2 (Type A) ports
Video	1x DisplayPort connectors 1x HDMI port
Other	1x1 Gb LAN ports 1x 2.5 Gb LAN ports 1x DC jack
Power Input	DC jack

Front I/O

USB	2x USB 3.2 Gen2 (Type-A) 2x USB 3.2 Gen2 (Type-C, Supports DP1.4 display output)
Audio Input / Output	1x Headphone & microphone jack
Port Punchouts	2x Antenna holes
Other	1x Optional COM port

Expansion & Features

Expansion Options	1x M.2 2230 E-key
Storage Options	1x M.2 2242/60/80 M-key (SATA)
LAN Controller	Intel I219LM with 10/100/1000 Mbps Intel I225LM with 10/100/1000/2500 Mbps
System Monitoring	Infinion SLB9670VQ2.0
Input Voltage	12 - 19 VDC
Power Input	DC jack

Mechanical

Dimensions (WxHxD)	142 x 62 x 111 mm 5.6" x 2.4" x 4.4"
Mounting Options	DIN-mount (included) VESA-mount Wall-mount
Case Type	Compact Fanless
Case Material	Aluminum Extrusion Steel

Environmental & Regulatory

Operating Temperature	0 - 50°C

Other

Warranty	2 Year Limited Warranty on parts and services

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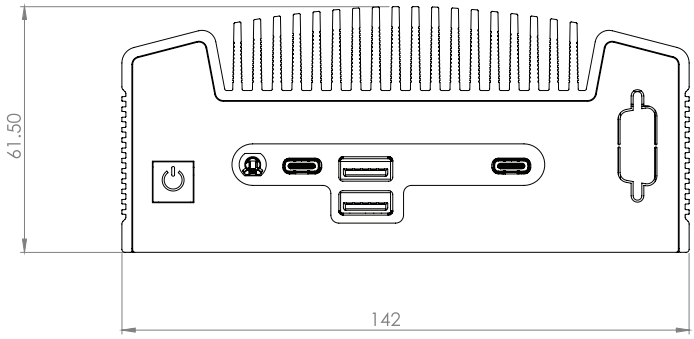
ML100G-53 Dimensional Drawings

DIN and Wall Mounting

All measurements in mm



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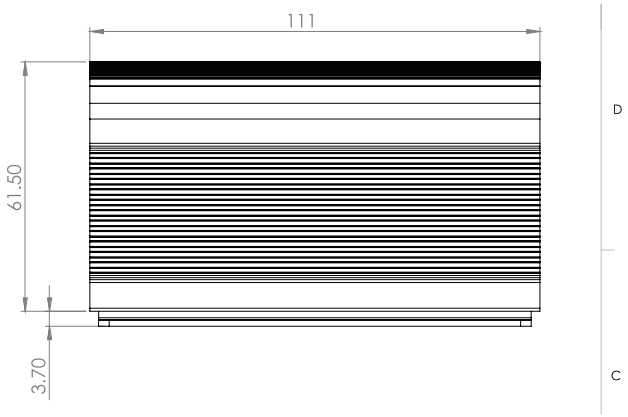

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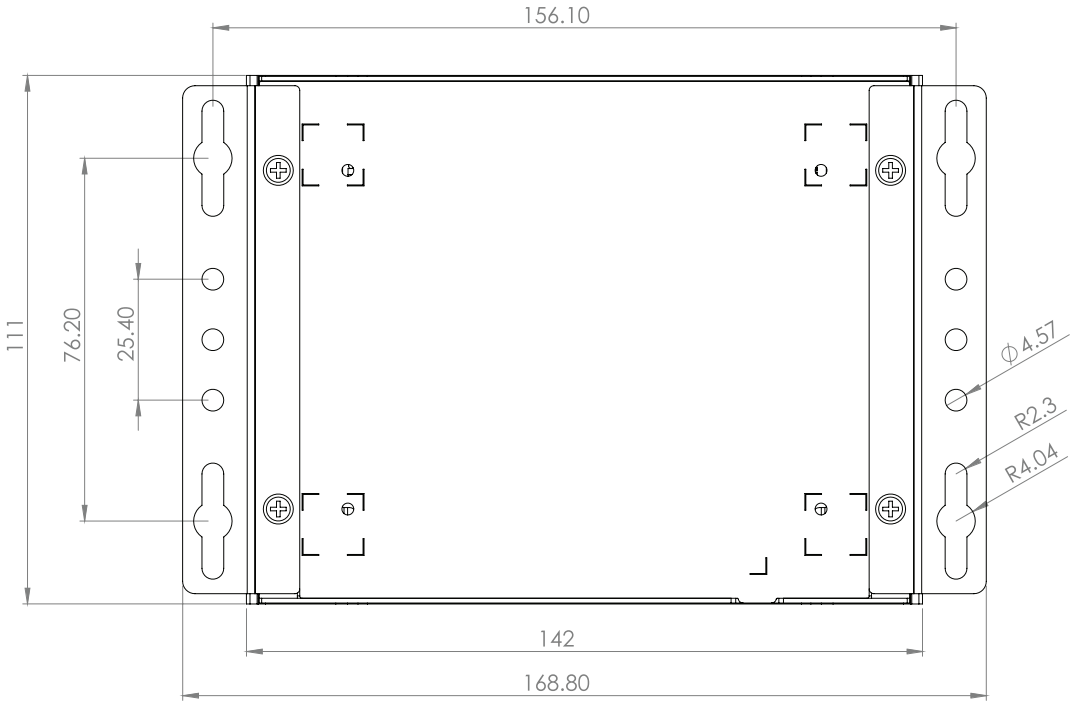

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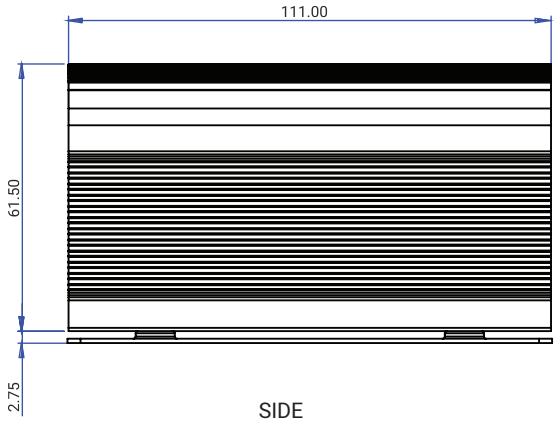
ML100G-53 Dimensional Drawings

VESA Mounting

All measurements in mm



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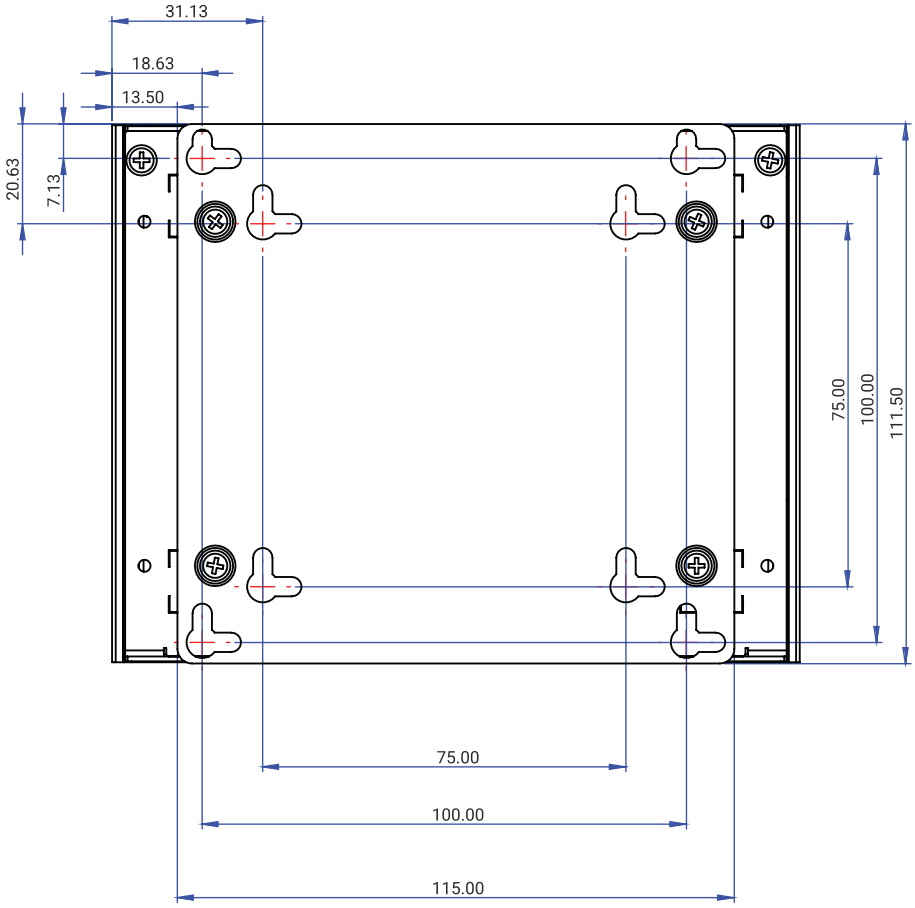

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