MTN-MTL50

Intel® Core™ Ultra (Meteor Lake/Arrow Lake-H) Processor based Ultra-Compact Mini PC with Thunderbolt 4

Features

- CPU: Intel® Meteor Lake/Arrow Lake-H Processor
- Memory: Dual Channel DDR5 for Memory up to 96GB
- Display: Integrated Intel® Arc™ Graphics, HDMI+DP+Thunderbolt™ 4
- I/O Ports: 2xUSB-C(1*TBT4+1*USB3.2_10Gbps), 2xUSB3.2, 1xUSB2.0, 2xLAN(2.5GbE), Audio
- Storage: 2xM.2_Key M Slot for 2280 NVMe SSD
- Expansion: 1xM.2_Key E Slot for 2230 WiFi and Bluetooth
- Power: 19V/20V DC-in

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Introduction

The MTN-MTL50 Ultra-Compact Mini PC combines next-generation performance with cutting-edge AI capabilities in a sleek, space-saving design. Powered by the latest Intel® Meteor Lake and Arrow Lake processors (125H / 155H / 255H), it offers up to 16 cores and clock speeds reaching 5.1GHz. With support for high-speed DDR5 memory up to 96GB, dual NVMe SSDs, and integrated Intel® Arc™ graphics, the MTN-MTL50 delivers the computing power and graphics performance needed for demanding multitasking, content creation, and immersive 4K media experiences.

Equipped with Intel® AI Boost NPU technology, the MTN-MTL50 accelerates AI-driven applications, making it future-ready for productivity and entertainment. Its versatile connectivity includes triple 4K display outputs, dual 2.5GbE LAN, Thunderbolt™ 4, and USB 3.2, ensuring flexibility across both home and business environments. Compact yet powerful, the MTN-MTL50 is the perfect solution for office productivity, digital signage, education, and home entertainment where performance, efficiency, and reliability are essential.
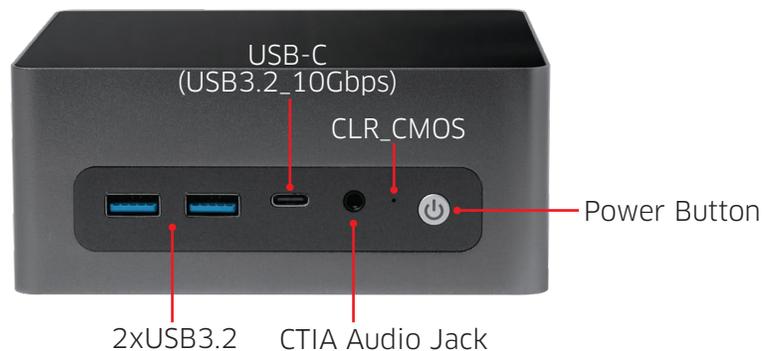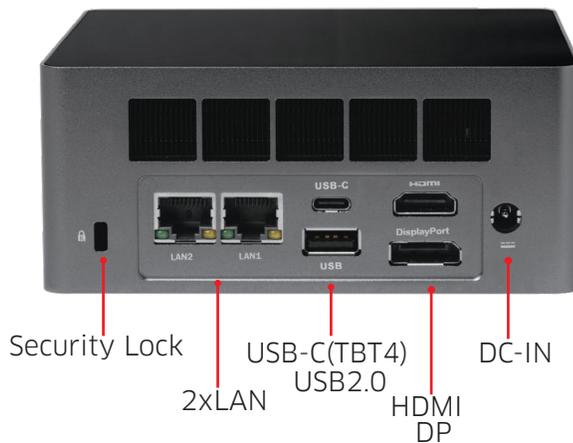
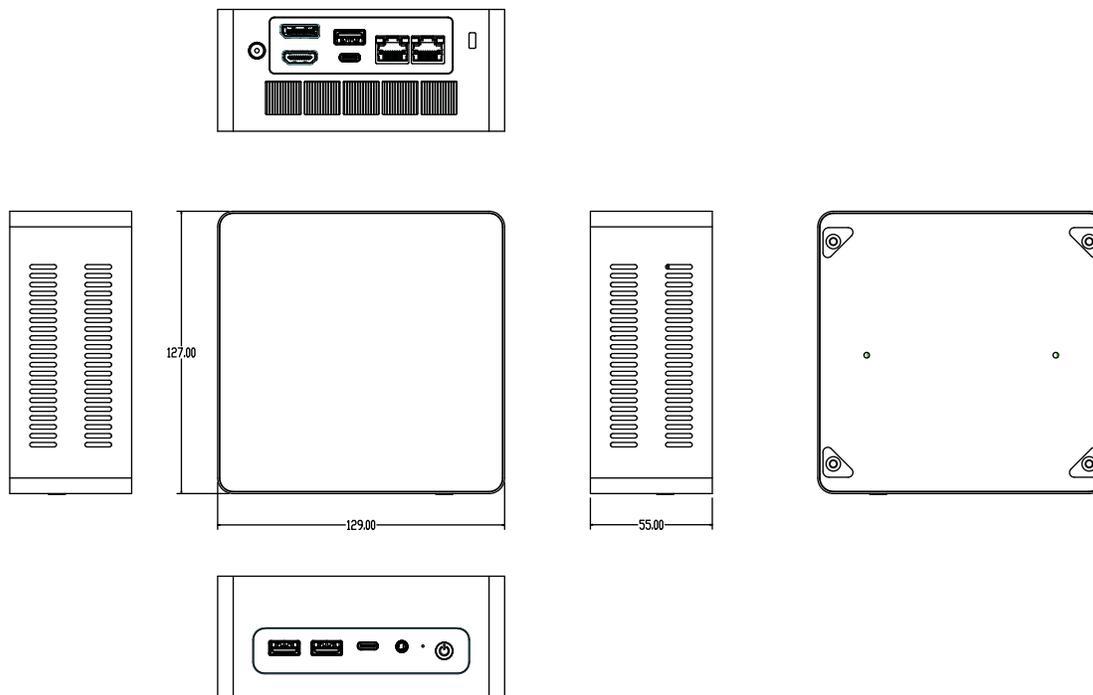H/W Monitor   Watchdog

I/O Interfaces

Security Lock
2xLAN
USB-C(TBT4)
USB2.0
HDMI
DP
DC-IN

USB-C
(USB3.2_10Gbps)
CLR_CMOS
Power Button
2xUSB3.2   CTIA Audio Jack

Technical Specifications

Processor	Meteor Lake/Arrow Lake	125H	155H	255H
	Total Cores/Threads	14C/18T	16C/22T	16C/16T
	P-core Max Frequency	4.5 GHz	4.8 GHz	5.1 GHz
	E-core Max Frequency	3.6 GHz	3.8 GHz	4.4 GHz
	Cache	18 MB	24 MB	24 MB
	TDP	/	/	/
GPU	Integrated Graphics	Intel® Arc™ graphics	Intel® Arc™ graphics	Intel® Arc™ 140T
NPU	Intel® AI Boost	Yes	Yes	Yes
	BIOS	AMI UEFI BIOS		
Memory	Type	Dual Channel SO-DIMM DDR5		
	Max. Capacity	96GB		
Display	GPU	Integrated Intel® Graphics.		
	Interface	1xDP2.1, 1xHDMI2.1, 1xTBT4		
Ethernet	Controller	2 x RTL8125		
	Speed	10/100/1000/2500Mbps		
	Interface	2 x RJ45		
Audio	Audio Codec	SenaryTech SN6186		
	Interface	1 x CTIA 2in1 Audio Jack, supports Line-out+Mic-in		
Storage	M.2_N1/N2	2 x M.2 Key M Slot for 2280 NVMe SSD		
Expansion	M.2_E	1xM.2 Key E Slot for 2230 Wi-Fi&Bluetooth Module		
Other I/O	USB3.2	2xUSB3.2		
	USB2.0	1xUSB2.0		
	USB-C	2xUSB-C(Front:1*USB 3.2_10Gbps.Rear:1*TBT4 full-funcationed.)		
	TPM	Optional		
Dimension	Size	127 mm x 129 mm x 55mm (L x W x H)		
	Weight	N.W. Barebone: 0.685KG		
Power	Standard Port	19V/20V DC-in		
Temperature	Operating Temp.	0℃ to 50℃		
	Storage Temp.	-20℃ to 70℃		
Cooling		Active		
Operating System		Windows10/11 64bit, Linux 64bit.		

*All specifications and photos are subject to change without notice.

Dimension

127.00

129.00

55.00

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