MP2-10MTS

*Fanless Embedded System
with Intel® Meteor Lake-U Processor*

MiTAC
MITAC DIGITAL TECHNOLOGY CORP.

Introduction

- **Intel® Meteor Lake U Core™ Ultra 7 155U / Ultra 5 125U processors**
- **Outstanding graphic computing capability with Integrated 4 x Intel®Iris Xe graphics**
- **1 x DDR5 SO-DIMM and support up to 48GB**
- **Supports Dual display for HDMI, and DisplayPort**
- **1 x 2.5" SSD/HDD slot**
- **4 x Intel® i226-LM 2.5G LAN (Supports TSN; Option: additional 2 x i210-IT LAN)**
- **3 x USB 2.0, 4 x USB 3.2 Gen2, 1 x USB Type C, and 4 x COM**
- **8V~26V wide voltage power input**
- **Supports Hailo-8™ AI Accelerator (BTO), up to 26 TOPs**

intel CORE ULTRA 5
intel CORE ULTRA 7
intel iRIS Xe GRAPHICS
EMPOWERED BY HAILO

USB3.2	Fanless Design	M.2 Support	2.5G LAN	4 COM port	Wide Range DC-in
3.2 Gen2		M.2 x3	LAN 2.5G	COM x4	8V~26V DC-in

I/O Interface

Line-out   Option Xpansion   Nano SIM Slot   Remote PWR on/off

GPIO   USB2.0   COM   DC-in   USB3.2 USB2.0   LAN   HDMI DP   USB-C USB3.2

Dimension (mm)

WALL MOUNT MODE

SIDE MOUNT MODE
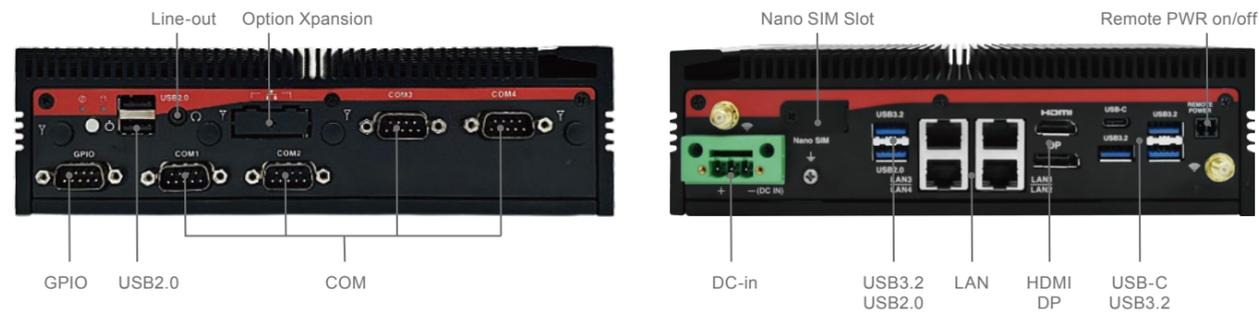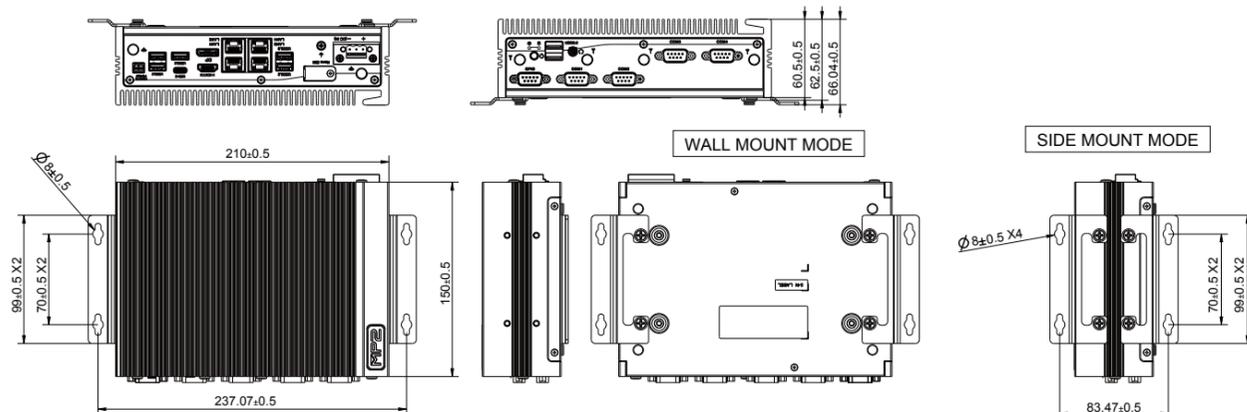
MP2-10MTS *Fanless Embedded System*

SYSTEM	
CPU	Intel® Meteor Lake U Core™ Ultra 7 155U / Ultra 5 125U Processor
Chipset	Intel® SoC Integrated
System Memory	DDR5 5600 MHz / 1 x 262-pin SO-DIMM / Max. 48GB (Non-ECC)
Graphics	Intel® Iris Xe Graphics
Display Interface	DisplayPort 1.2 / HDMI 1.4
Storage Slot	1 x 2.5" HDD/SSD bracket 1 x M.2 B Key 2242 SATA SSD Slot 1 x M.2 M Key 2280 NVMe/SATA SSD Slot
Ethernet	4 x Intel® I226-LM 2.5G LAN (Optional PoE Module) / Additional 2 x Intel® I210-IT Giga LAN for Options
Audio	Realtek® ALC888S
I/O Chipset	Nuvoton NCT6126D
TPM	Nuvoton NPCT760AABYX TPM2.0
Expansion Slot	Storage/LTE/5G Slot: 1 x M.2 2242/3042/3052 B Key (USB2.0/PCIeX1/SATAIII) Storage: 1x M.2 2280 M key (PCIe4.0 X4, SATAIII) Wireless: 1 x M.2 2230 E key (PCIeX1, USB2.0)
Internal Speaker	1 x Buzzer
Indicator	Power Button / Power LED / HDD LED

Front I/O	1 x RS232 / 422 / 485	8-bit GPIO in DB9 type	1 x Line-out
	3 x RS232	2 x USB 2.0	2 x SMA Antenna hole with rubber cap

Rear I/O	4 x USB 3.2 Gen 2 (10 Gbps)
	1 x USB Type C (Support PD15W, 5V/3A, DP Alt mode, USB3.2 Gen1)
	1 x USB 2.0 (integrated in the same blue type connector)
	4 x RJ-45
	1 x HDMI 1.4
	1 x DisplayPort 1.2
	1 x Nano SIM slot with cover
	1 x 2-pin Terminal Block Remote Power on / off
	1 x 3-pin Terminal Block Power Input
	2 x SMA Antenna hole with rubber cap

Hardware Monitor	Temperature Monitor, Voltage Monitor
Watchdog Timer	1~255 steps by software program

POWER REQUIREMENT	
Power Input	8~26V Wide Range DC Input w/ Terminal Block Connectivity
Power Adapter	Optional 24V/3A, 72W AC adapter (For AC SKU) Optional 24V/5A, 120W AC adapter (Recommended with PoE Xpansion)

MECHANICAL	
Thermal Design	Fanless
Mounting	Wallmount 75 mm x 75 mm VESA Holes & Din Rail Mount + Transfer Plate Combo Kit (Optional)
Dimensions (W X D X H)	8.3" x 5.9" x 2.5" (210 x 150 x 63 mm)
Weight	2.1kg (4.6 lb)
Material	Top cover: Aluminum Alloy / Bezel and chassis: Steel

ENVIRONMENTAL	
Operating Temperature	-40°C to 60°C, with 0.7m/s Air Flow and Wide Temperature Memory & Storage
Storage Temperature	-40 ~ 85°C (-40 ~185°F)
Operating Humidity	10% ~ 95% R/H (Non-condensing)
Vibration Resistance	Operating: 5Hz~500Hz / 2Grms / 3Axis (w/ SSD, according to IEC60068-2-64)
Shock Resistance	Operating: 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Certification	CE / FCC Class A / LVD CoC: EN62368-1

OS	
OS Support	Windows® 11 64bit, Windows® 10 64-bit, Linux (support by request)

Ordering Information

Model Number	Processor	AC Adaptor	Model Number	Processor	AC Adaptor
MP2-10MTS-125U	Core Ultra 5 125U	None	MP2-10MTS-155U	Core Ultra 7 155U	None
MP2-10MTS-125U-AC	Core Ultra 5 125U	72W AC to DC Adaptor	MP2-10MTS-155U-AC	Core Ultra 7 155U	72W AC to DC Adaptor

Packing List

Packing		
• 1 x Embedded System	• 1 x Quick Installation Guide	• 1 x 2 pin Terminal Block Male Connector
• 1 x 3 pin Terminal Block Power Connector	• 1 x Wall Mount Brackets	• 1 x AC Adaptor + US & EU Power Cord (for AC SKU only)

Rugged

Fanless

Fanned

Rackmount