

ME2-10TWT

Fanless Embedded System
with Intel® Twin Lake Processor

Introduction

- Intel® Twin Lake N150(4C) / Core 3-N355 (8C8T) Processor
- LPDDR5 onboard type(4GB/8GB/16GB option)
- eMMC onboard type(64GB/128GB option)
- Support Dual Display for HDMI, USB type C(DisplayPort)
- 2 x 1GbE LAN ports (1x supports PoE as PD or PSE option)
- 1 x M.2 B key, 1 x M.2 E key slots, 1 x Nano SIM slot
- 3 x USB 3.2 Gen 2 Type A, 1 x USB Type C
- 1 x COM RS232/422/485
- 8V~26V wide voltage power input



USB3.2



Fanless Design



All Solid Capacitor



Dual LAN



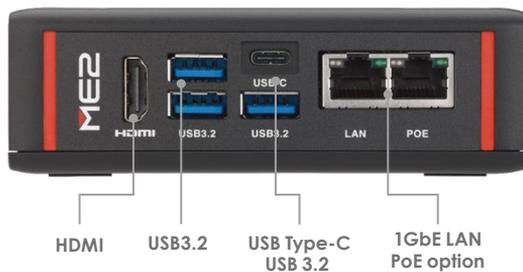
1 COM port



Wide Range DC-in

I/O Interface

Front I/O



HDMI USB3.2 USB Type-C 1GbE LAN PoE option

Side I/O



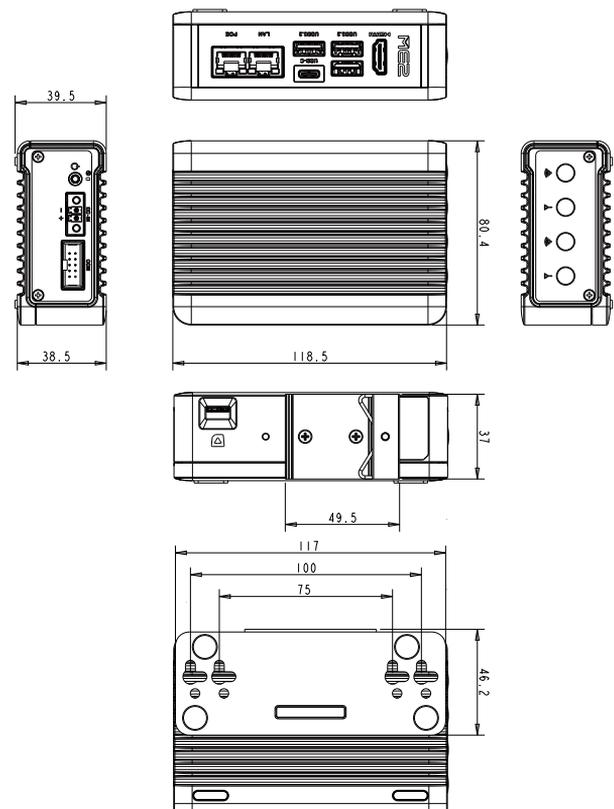
Power button DC-in COM port RS232/422/485

Rear I/O



Micro SIM Slot DIN Rail mount

Dimension (mm)



ME2-10TWT

Fanless Embedded System

SYSTEM	
CPU	Intel® Twin Lake N150(4C), and Core™ i3-N355(8C8T) Processor
Chipset	Intel® SoC Integrated
System Memory	LPDDR5 4800MHz onboard type(4GB, 8GB, 16GB)
Storage	1 x eMMC (64GB/128GB)
Display interface	USB type C (DP 1.2) / HDMI 1.4
Ethernet	2 x Realtek RTL8111H-CG 1GbE
I/O CHIPSET	Nuvoton NCT5525D
TPM	Nuvoton NPCT760AABYX TPM2.0
Expansion Slot	Storage/LTE Slot: 1x M.2 2242 / 3042 B key (USB2.0, SATAIII, PCIe1) with nano SIM slot Wireless: 1x M.2 2230 E key (PCIex1, USB2.0)
Indicator	Power Button / Power LED
Front I/O	3 x USB 3.2 Gen2 1 x USB 3.2 type C (Support display(5V/3A) and audio) 2x RJ45 (1x POE option for PD mode or PSE mode) 1 x HDMI 1.4 (Vertical)
LEFT SIDE I/O	1 x Power button 1 x Terminal block 2pin with locked 1x 5Px2 NP9 header as RS232/422/485
REAR SIDE I/O	1x SIM slot hole for Nano SIM card 2 x DIN rail hole
Watchdog Timer	1~255 steps by software program
POWER REQUIREMENT	
Power Input	DC-in 8~26V (Default ATX mode, AT/ATX adjusting by BIOS)
Power Adapter	Optional DC12V / 5A / AC / DC / 60W adapter (For AC SKU)
MECHANICAL	
Thermal Design	Fanless
Mounting	Din Rail Mount, VESA Mount (75 x 75mm) for option
Dimensions (W x D x H)	118.5 x 80.4 x 39.5mm
Weigh	0.42 kg (0.93 lb)
Material	Enclosure: Die Casting
ANTENNA	4 x SMA Antenna (Optional for WiFi / LTE function)
ENVIRONMENTAL	
Operating Temperature	-25°C to 55°C with 0.7m/s Air Flow (w/ Wide Temp. SSD/RAM)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10% ~ 95% R/H (Non-condensing)
Vibration Resistance	Operating: 5Hz~500Hz / 2Grms / 3Axis / 30mins (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 B
OS	
OS Support	Windows® 11 64-bit / Windows® 10 64-bit / Ubuntu 20.04 / Linux (support by request)

Ordering Information

Model Number	Processor	LPDDR5/eMMC	Operating temperature	AC Adapter
ME2-10TWT-N150-4GB	N150	4GB / 64GB	-25 ~ 55°C with 0.7m/s Air Flow (w/ Wide Temp. SSD/RAM)	60W AC to DC Adapter
ME2-10TWT-N150-8GB	N150	8GB / 128GB	-25 ~ 55°C with 0.7m/s Air Flow (w/ Wide Temp. SSD/RAM)	60W AC to DC Adapter
ME2-10TWT-N355-16GB	Core 3-N355	16GB / 128GB	-25 ~ 55°C with 0.7m/s Air Flow (w/ Wide Temp. SSD/RAM)	60W AC to DC Adapter
ME2-10TWT-N150-8GB-PD	N150	8GB / 128GB	-25 ~ 55°C with 0.7m/s Air Flow (w/ Wide Temp. SSD/RAM)	None/PD Power input 25.5W
ME2-10TWT-N355-16GB-PSE	Core 3-N355	16GB / 128GB	-25 ~ 55°C with 0.7m/s Air Flow (w/ Wide Temp. SSD/RAM)	60W AC to DC Adapter

Packing List

Packing

- 1 x Embedded System
- 1 x Quick Installation Guide
- 1 x DIN-Rail Mount Bracket
- 1 x COM port cable
- 1 x AC Adapter + US & EU power cord