

ME1-108T

Fanless Embedded System
with NXP® i.MX8M Processor

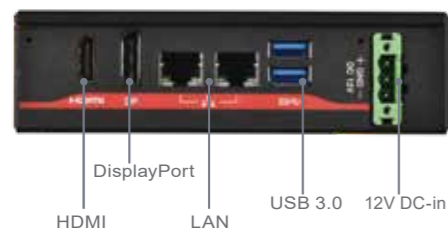
Introduction

MITAC's ME1-108T embedded system is the fanless embedded system with NXP i.MX8M is a 2.5" Arm-based Qseven module, powered by NXPQuad Core Arm Cortex-A53 i.MX8M high-performance processor. Moreover, to extend expansion capability, the ME1-108T has an on-board Raspberry Pi 40 pin header, to support various peripheral devices for added applications.. The whole new SOC structure packs more powerful capability for your tasks or applications.

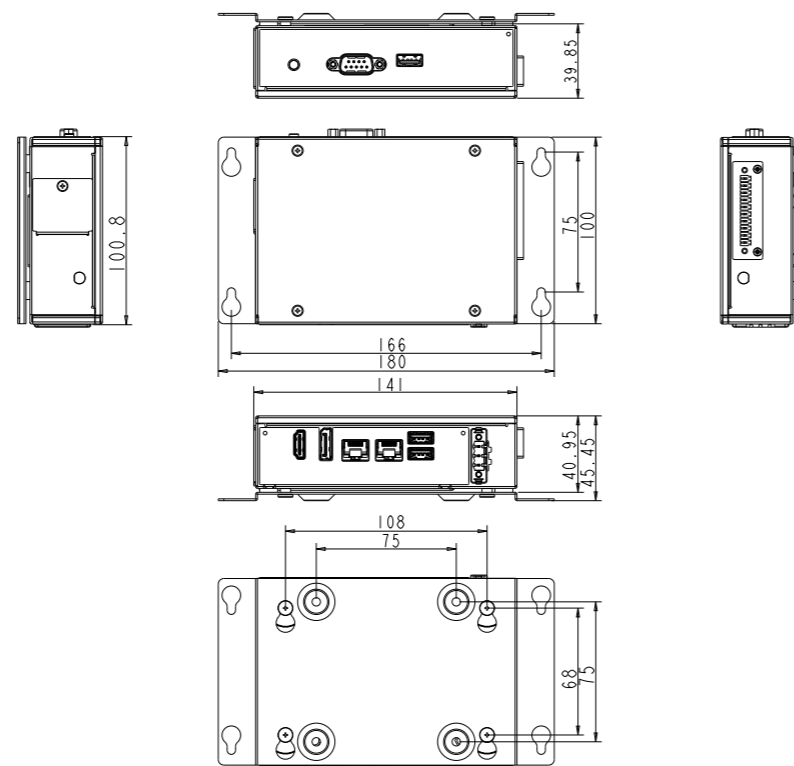
The ME1-108T 1.2 liter fanless chassis design and expandable module design give it the flexibility to adapt to every workspace and environment, whether implemented as an embedded system.



I/O Interface (mm)



Dimension (mm)



ME1-108T Fanless Embedded System

SYSTEM	
CPU	NXP® i.MX8M Family - 8M Quad (4 x Cortex-A53 @ 1.3GHz) - 8M Dual (2 x Cortex-A53 @ 1.3GHz)
Chipset	i.MX8M SoC Integrated
System Memory	LPDDR4 800MHz Onboard Memory with Options for 1GB / 2GB / 4GB)
Graphics	i.MX8M SoC Integrated
Storage	Onboard eMMC with Options for 8GB / 16GB / 32GB 1 x Micro SD card slot (Up to 256GB)
Ethernet	2 x Realtek Giga LAN (1st LAN: RTL8211FD; 2nd LAN: RTL8111H)
Audio	Realtek ALC5660
Expansion Slot	Mini PCIe Full / Half Size (PCIe / USB)
Front I/O	1 x USB 2.0 Type A 1 x COM port (RS232/422/485) 1 x Power button 1 x Power LED
Side I/O	1 x Micro SD/SIM card slot 1 x GPIO 10-pin (4in/4out/5V/GND, Terminal Block)
Rear I/O	2 x USB 3.0 2 x RJ-45 1 x HDMI2.0 1 x DisplayPort 1.2 1 x 3-pin Terminal Block Power Connector
POWER REQUIREMENT	
Power Input	12V 36W Power Adapter
MECHANICAL	
Thermal Design	Fanless & Ventless
Mounting	Wallmount & VESA Mount (75 x 75mm) 2-in-1Bracket
Antenna	2 x SMA Antenna (Optional for WiFi/LTE function)
Dimension	140*100*38.75mm
Material	Enclosure: Sheet Metal
ENVIRONMENTAL	
Operating Temperature	0°C to 55°C
Storage Temperature	-20°C ~ 70°C
Operating Humidity	10% ~ 90% R/H (Non-condensing)
Storage Humidity	10% ~ 95% @85°C non-condensing
Certification	CE / FCC Class B
OS	
OS Support	Yocto Sumo (Kernel version 4.14.98) BSP Support Android 9 Pie (Kernel version 4.14.98) BSP Support

Ordering Information

Model Number	Processor	DDR4	eMMC	Display	LAN	COM
ME1-8MD-1G8G	I.MX8M Dual Core	1GB	8GB	HDMI	1	0
ME1-8MD-2G16G	I.MX8M Dual Core	2GB	16GB	HDMI	1	0
ME1-8MQ-4G32G	I.MX8M Quad Core	4GB	32GB	HDMI + DisplayPort	2	1

Packing List

Packing		
1 x ME1-108T Embedded System	1 x Wallmount & VESA Mount 2-in-1Bracket	1 x 10P terminal block male plug (331000000508)
1 x Quick Installation Guide		