

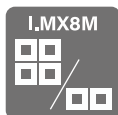





ME1-108T

Fanless Embedded System
with NXP® i.MX8M Processor

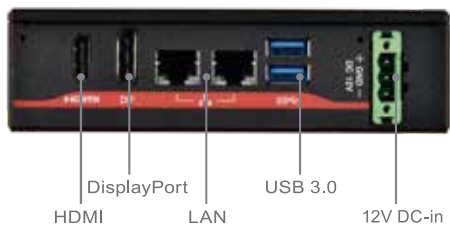
Introduction

- NXP® i.MX8M Dual Core & Quad Core Processor
- LPDDR4 Memory (Options for 1GB / 2GB / 4GB)
- eMMC Storage (Options for 8GB / 16GB / 32GB)
- Support up to x2 Giga LAN
- Support up to x2 display for 1x HDMI (4K), 1 x DisplayPort(FHD)
- Support x1 Mini PCIe expansion slot
- Up to 2 x USB 3.0, 1 x USB 2.0, 1 x COM port (x RS232/422/485), 4in-4out GPIO
- 12V DC Power Input



 i.MX8M NXP Dual/Quad Core	 GPIO	 LAN Dual LAN	 COM COM	 Mini PCIe Mini PCIe	 Dual Display
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I/O Interface (mm)

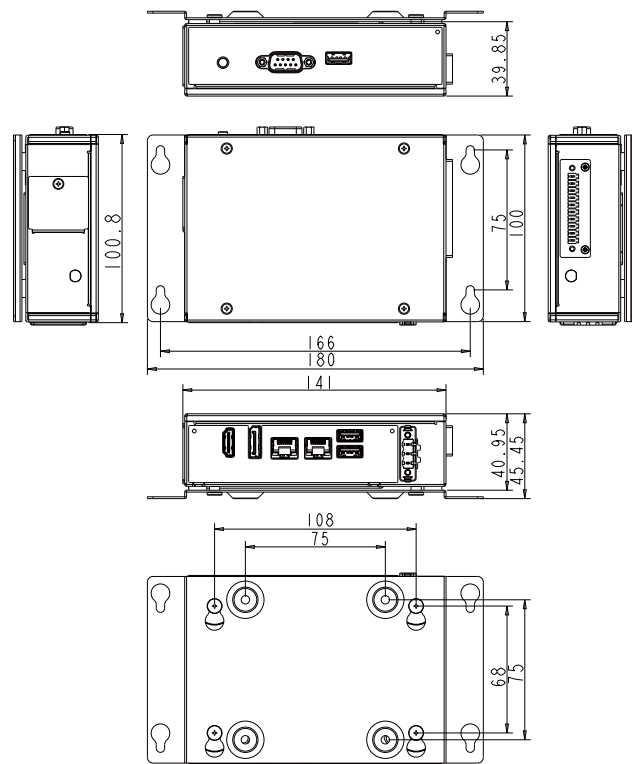


DisplayPort HDMI LAN USB 3.0 12V DC-in



GPIO USB 2.0 COM

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 Onboard Memory with Options: 1GB (800MHz), 2GB (1600MHz), 4GB (1600MHz)
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 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-1 Bracket
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 (Remark: Android is suggested for 2G or 4G memory MB SKU) Android 9 Pie (Kernel version 4.14.98) BSP Support

Ordering Information

Model Number	Processor	DDR4	eMMC	Display	LAN	COM
ME1-8MQ-4G32G-DP	I.MX8M Quad Core	4GB	32GB	HDMI + DisplayPort	1	0

Packing List

Packing

- 1 x ME1-108T Embedded System
- 1 x 10P terminal block male plug
- Wall Mount and VESA Combination Bracket (Din-rail mounting plate an optional extra)
- 1 x Quick Installation Guide