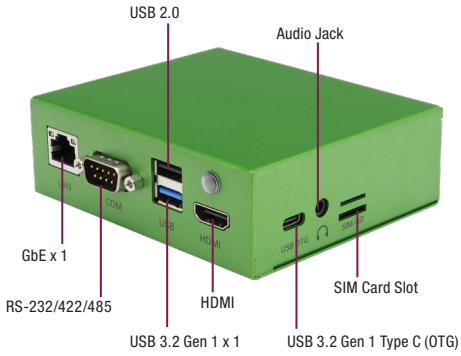
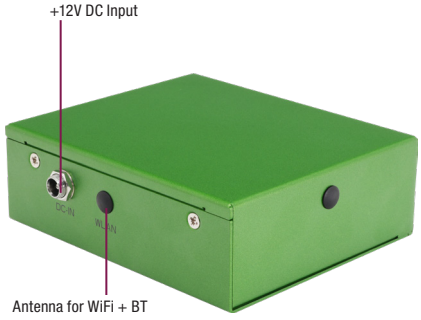
BOXER-MX8P

Fanless Embedded Box PC with NXP i.MX 8M Plus





Features

- NXP i.MX 8M Plus
- LPDDR4 2GB/4GB
- eMMC 16GB + Micro-SD Card Slot
- HDMI 2.0 x 1
- RJ-45, GbE x 1
- USB 3.2 Gen 1 x 2 (Type-C OTG x 1, Type-A x 1)
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1 (USB)
- OS Support: Debian 11 / Android 13
- 106.5mm x 85.6mm x 50mm

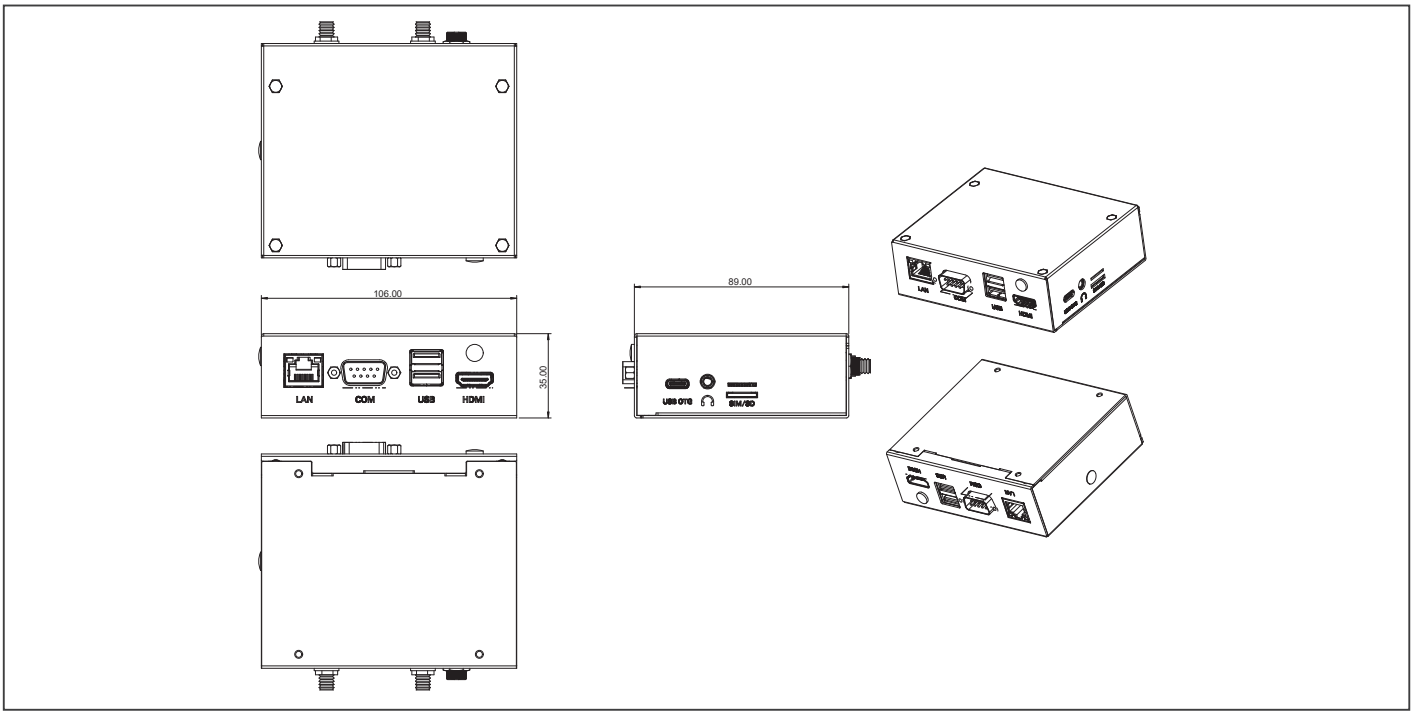
Specifications

System	
CPU	NXP i.MX 8M Plus: Quad-Core Arm® Cortex® A53, 1.6 GHz Arm® Cortex®-M7, up to 800 MHz NPU: 2.3 TOPS
GPU	Vivante GC7000UL: 3D GPU (2 shaders) OpenGL ES 3.1, Vulkan, OpenCL 1.2 Vivante GC520L: 2D GPU
Chipset	—
Graphics	Video Processing Unit (VPU): • 1080p60 H.265, VP9 decoder • 1080p60 H.264, VP8 decoder • 1080p60 H.265, H.264 encoder
System Memory	LPDDR4 2GB/4GB/8GB (Optional)
Display Interface	HDMI 2.0
Storage/SSD	16GB eMMC and Micro-SD card
I/O	Micro-SD Card Slot x 1 HDMI 2.0 x 1 Antenna Connector for Wi-Fi 802.11 b/g/n, BT V5.0 Antenna Connector for LTE (Optional) RJ-45, GbE x 1 USB 3.2 Gen 1 (Type-C OTG) x 1 USB 3.2 Gen 1 (Type-A) x 1 USB 2.0 x 1 RS-232/422/485 x 1, RS-232 x 1 (Optional) SIM Card Slot x 1 Audio Jack x 1
Expansion	mPCIe Slot x 1 (USB) for LTE module
Indicator	Power LED x 1
OS Support	Debian 11, Android 13 (Optional)
Power Supply	
Power Requirement	+12V DC input
Mechanical	
Mounting	VESA mount, 75mm x 75mm
Dimension (W x D x H)	4.2" x 3.37" x 1.97" (106.5 mm x 85.6 mm x 50 mm)
Gross Weight	1.1 lb (0.5 Kg)
Net Weight	0.66 lb (0.3 Kg)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-40˚F ~ 176˚F (-40˚C ~ 80˚C)
Storage Humidity	0% ~ 90% relative humidity, non-condensing
Anti-Vibration	—
Certification	CE / FCC

Note: All specifications are subject to change without notice.

Dimension

Unit: mm



Packing List

- **BOXER-MX8P**
- **125530060Y**
  12V / 60W Power Adapter

Optional Accessories

- **170X000399**
  WiFi 6, 2.4GHz/5GHz/6GHz, External Antenna
- **9741EG25G0**
  EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- **M04BIBX000**
  Wall-mount Plate

Ordering Information

Part Number	CPU	OS	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
BOXER-MX8P-A10-0001	NXP i.MX 8M Plus Quad Cortex™-A53	Debian 11	2GB LPDDR4	16GB eMMC	GbE x 1	1 (RS-232/422/485)	3	1 (HDMI)	802.11 b/g/n BT 5.0 + EDR	1 (mPCIe Slot)
BOXER-MX8P-A10-0002	NXP i.MX 8M Plus Quad Cortex™-A53	Android 13	4GB LPDDR4	16GB eMMC	GbE x 1	1 (RS-232/422/485)	3	1 (HDMI)	802.11 b/g/n BT 5.0 + EDR	1 (mPCIe Slot)