

EMP-100-IMX8

Palm-sized Fanless Media Player
with NXP® ARM Processor



Features

- NXP i.MX8M Plus high-performance processor
- HDMI output
- 12 V DC in or 12-24 V DC in
- 32 GB eMMC and external Micro SD slot for storage expansion
- Expansible I/O design from edge I/O
- Support 1 GbE LAN TSN
- Palm size and fanless design

Software Support

- Linux Yocto (Default)
- Windows 10 (By demand)

Ordering Information

Part Number	Description
93-G1000-300E	EMP-100-IMX8-Q, 2 GB, 32 GB, 12 V, CT2
93-G1000-400E	EMP-100-IMX8-Q, 4 GB, 32 GB, 12-24 V, WT1

Optional Accessories

- Wireless Kit: Wi-Fi module (w/ antenna)
- Mounting Kits: Wall/ VESA mount

Specifications

Model Name	EMP-100-IMX8
System	
Processor	NXP i.MX 8M Plus, ARM A53, 64-Bit, 1.8 GHz, 4 Core
Memory	2 GB & 4 GB LPDDR4
Storage	32 GB eMMC 5.1
External I/O	
Ethernet	1x GbE port, RJ45 connector, 1G TSN, support wake on LAN, default 1x GbE port, RJ45 connector, support wake on LAN, optional
USB Port	1x USB 3.0 Type A and 1x USB 2.0 Type A
Display Port	1x HDMI 2.0a, up to 3840x2160p30
Internal I/O with Wire-to-Board Connectors (optional)	
Display Port	1x LVDS: dual channel-24bit for max. 1080P or 1x MIPI-DSI
Serial Port	1x RS485, with auto flow control (default) 1x RS-232/422/485 programmable, auto flow (optional)
I ² C	2x for I ² C client, wafer
Audio	1x for 2x stereo speaker (2 watts) 1x Mic-in (Mono) and Line-out (Stereo) 1x buzzer
CAN	1x CAN Bus, wafer
M.2	1x 2230 A/E key for WiFi/Bluetooth
Expansion I/O	1x USB 3.2 Gen1 (5Gbps), 1x I2C, 1x SPI, 4GPI&4GPO
Mechanical	
Dimensions	130 (W) x 107 (D) x 33.5 (H) mm
Weight	500 g
Mounting	Wall / VESA mount
Power	
Power Input	12V (default) or 12-24V (optional)
Power Connector	1x 2.5 Φ DC Jack
Backup Battery	1x RTC battery
Environmental	
Operating Temperature	0°C – 60°C
Storage Temperature	-10°C – 80°C
EMC & Safety	CE/FCC Class B, LVD
Software	
Operating System	Yocto Kirkstone LTS (5.15), by default Windows 10, by demand

Dimensions (unit: mm)

