# 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



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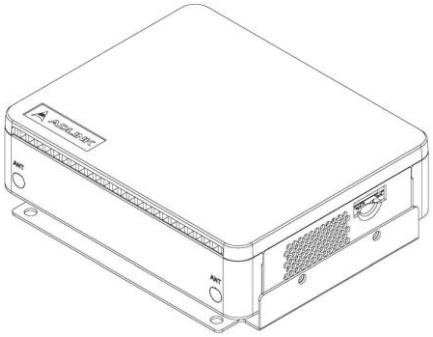
## Specifications

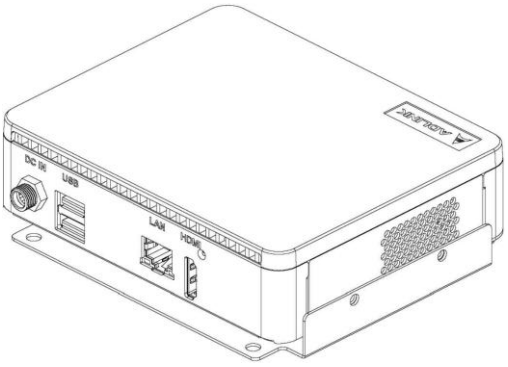
| Model Name | EMP-100-IMX8 |
|---|---|
| **System** | |
| Processor | NXP i.MX 8M Plus, ARM A53, 64-Bit, 1.8 GHz, 4 Core |
| Memory | 2 GB & 4 GB LPDDR4 |
| Storage | 32 GB eMMC 5.1 |
| **External I/O** | |
| Ethernet | 1x GbE port, RJ45 connector, 1G TSN, support wake on LAN, default<br>1x GbE port, 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)<br>1x RS-232/422/485 programmable, auto flow (optional) |
| $I^2C$ | 2x for $I^2C$ client, wafer |
| Audio | 1x for 2x stereo speaker (2 watts)<br>1x Mic-in (Mono) and Line-out (Stereo)<br>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<br>Windows 10, by demand |

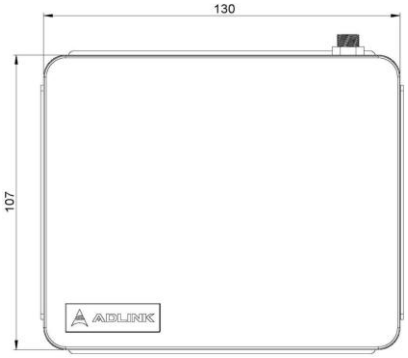


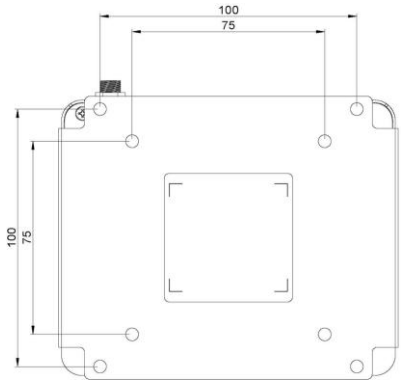
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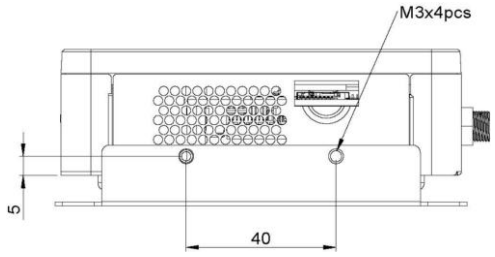
## Dimensions (unit: mm)

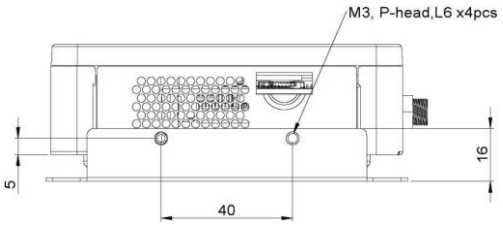


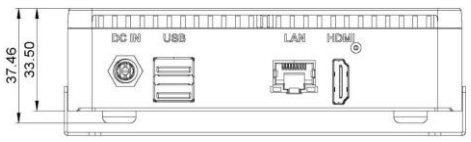


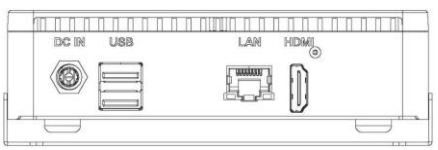




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