

CuBox Pulse

Datasheet

NXP i.MX8M™ based fanless mini PC



Embedded Edge Computing

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Overview

CuBox Pulse harnesses the powerful multimedia focused i.MX8M processor with a range of features and connectivity options, all housed in a stylish, silent and fanless cube shaped plastic enclosure measuring 2"x2"x2" (5x5x5cm).

Experience the unparalleled high-resolution visuals of CuBox Pulse – with 4K UltraHD and HDR support. CuBox Pulse is tailor made to be an entertainment and multimedia IoT powerhouse with a cutting-edge standard of visual and audio.

CuBox Pulse Highlighted Features

- ✿ Based on NXP's i.MX8M Dual / Quad Core
- ✿ Arm Cortex A53 processor (up to 1.5Ghz)
- ✿ Arm M4 General Purpose Processor
- ✿ 2"x2"x2" fanless cube enclosure
- ✿ Up to 4GB LPDDR4
- ✿ 4K UltraHD full HDR support (HDMI 2.0)



System Specifications

CuBox Pulse		
SOM Model	SOM i.MX8M Dual / Quad	
Memory and Storage	Up to 3GB LPDDR4 eMMC MicroSD	
Connectivity	1 x RJ-45 1 x HDMI 2.0 2 x USB 3.0	
Media	HDMI 2.0 out MIPI-DSI 2 x MIPI-CSI Digital audio (Riser interface FPC connector) Onboard audio codec	
I/O	Power on button LED indicators RTC IR receiver	
Power	12V input DC jack PoE sink support	
Software	Linux 4.9	
Environment	Ambient temperature:	0°C to 40°C
	CPU die temperature:	0°C to 105°C
	Humidity (non-condensing): 10% - 90%	
Dimensions (WxL)	5 x 5 x 5cm	
Enclosure	Fanless cube shaped plastic enclosure	

Available SKUs for CuBox Pulse

SKU	Description
SRMX8DUW00D01GE008X00CE	CuBox Pulse Dual core 1GB RAM 8GB eMMC
SRMX8QDW00D02GE008X00CE	CuBox Pulse Quad core 2GB RAM 8GB eMMC

Safety Notice

- a. This device is to be used with Certified Power adaptor with output rated 12VDC, 1.5A. Power adapter must meet Limited power source (LPS) requirements.
- b. Power adapter must meet local safety standards and requirements based on product intended use.
- c. Power adapter must meet Operating environment conditions as specified above.

Disposal

Follow local regulations regarding disposal of the product. Dispose of your product in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited.

Help us protect the environment- recycle!

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Documentation

Additional documentation available at:

<https://developer.solid-run.com/products/cubox-pulse/>