



Compatible with i.MX 8M Mini full series processors

Introduction

DJ-i.MX 8M Mini-CORE core board is based on NXP's processor i.MX 8M Mini, which is designed through 14LPC FinFET technology for fast frequency and high power efficiency. With industrial and commercial certification and NXP support, the i.MX 8M Mini family is suitable for industrial and Internet of things .

DJ-i.MX 8M Mini-CORE is designed with TG HDI, compatible with the full series processor of i.MX8M Mini. It integrates CPU, DDR4, eMMC, PMU, Ethernet, QSPI and connects with the base board through two precise connector, featuring high reliability and easy installation. The size is only 43mm*52.2mm, and it is designed to meet different kinds of requirements.

The core board of DJ-i.MX 8M Mini-CORE can carry Linux and Android 9.0 ,Can appear in industrial control, medical instruments, communication control, traffic control, information system, financial equipment, automobile, digital control, various terminal markets.

Features

- ◆ Based on NXP embedded multi-core application processor,frequency at 1.8GHz;
- ◆ Integrated minimum system: The main processor, DDR4 SDRAM, eMMC, QSPI FLASH, PMU;
- ◆ Onboard a Gigabit Ethernet port PHY ,supporting 10M / 100M / 1000M adaptive;
- ◆ Industrial grade ARM core board, excellent stability and reliability;
- ◆ Rich industrial interface, MIPI, Audio, Gigabit Ethernet, M.2 2280 SSD interface, TF card, WIFI/BT, 4G/3G, USB, Multiple UART Port, RS485, GPIOs, RTC, I2C,etc.;
- ◆ Linux and Android Industrial ARM core board are extremely high cost performance;
- ◆ Perfect support for Linux and Android system, provide API DEMO code and APP.
- ◆ Technology of HDI sink gold PCB board ;
- ◆ Ultra small size: 43mm*52.2mm;
- ◆ Operating voltage: DC 5V±10%.

Specifications

According to customs variety of needs, DJ-i.MX 8M Mini-CORE core board provides two different configurations for choose: (DJ-i.MX 8M Mini-CORE:C or DJ-i.MX 8M Mini-CORE:I)

Core board model	Processor	DDR	Memory	Working temperature
DJ-i.MX 8M Mini-CORE:C	MIMX8MM6DVTLZAA	2GB DDR4	16GB eMMC 5.1	0°C~70°C
DJ-i.MX 8M Mini-CORE:I	MIMX8MM6CVTKZAA	2GB DDR4	8GB eMMC 5.1	-40°C~+85°C

DJ-i.MX 8M Mini-CORE can be unmodified and compatible with i.MX 8M Mini full series processors. It can provide customized services of main processor, DDR and EMMC according to requirements.

The specific specification list of DJ-i.MX 8M Mini-CORE core board is as follows:

Processor	CPU	Compatible with NXP i.MX 8M Mini full series processor, optional; Standard configuration: MIMX8MM6DVTLZAA or MIMX8MM6CVTKZAA multi-core processors: A quad Arm® Cortex®-A53 core, which frequency at 1.8 GHz, A general purpose Cortex®-M4 400 MHz core processor is for low-power processing
	GPU	3D GPU (1x shader, OpenGL® ES 2.0) , 2D GPU,Varies by processor
Storage	Memory	Onboard 2GB DDR4
	Built in memory	Onboard 16GB (commercial) or 8GB (industrial) eMMC 5.1 (optional 8GB/32GB/64GB...)
	QSPI FLASH	Onboard 32MB QSPI FLASH
Network	Network	1x Gigabit Ethernet port PHY,supporting 10M/100M/1000M adaptive
B2B Connector	Connector	Two 2x 50PIN connectors ,Connect the core board and the base board tightly
	Number of pins	Total 200PIN
B2B Fixing hole	Fixing hole	Four
Electrical characteristics	Power supply	DC 5V, ±5%
Operating system	Operating system	Optional Linux, Android
Environment	Working environment	Temperature: - 40°C~ +85°C natural convection, humidity: 10% ~ 90% RH@31°C no condensation
	Storage environment	Temperature: - 40°C~ 125°C, humidity: 5% ~ 95% RH@39°C no condensation
Size	Size	Ultra small size: 43mm*52.2mm;

Interface&Size

