

MXA-200 series

Preliminary

**NXP i.MX8M Plus Quad Core Processor Based
IIoT Gateway Platform**



Features

- NXP i.MX8M Plus Cortex A53 Quad Core 1.6GHz
- DDR4 2GB RAM, 32GB eMMC for system storage
- 2 x RS-232/422/485 isolated serial ports
- 2 x 10/100/1000 Ethernet ports
- 1 x M.2 E-key for WIFI
- 1 x M.2 B-key for 5G or 4G/LTE
- Operation Temperature -20°C to 70°C

Introduction

MXA-200 is an i.MX8M Plus based high-performance IIoT gateway, which has an open platform design with Quad Core processor, two RS-232/422/485 isolated serial ports, two 10/100/1000 Ethernet ports, two USB 3.0 port and operating temperature range of -20~70°C. It offers two M.2 slots for integrating Wi-Fi/4G/5G modules. MXA-200 enables system integrators to develop applications precisely for renewable energy, EV charger, smart city and factories which require massive data collection, cloud based application and video related monitoring solutions.

Eigenschaften

- NXP i.MX8M Plus Cortex A53 Quad Core 1.6GHz
- DDR4 2GB RAM, 32GB eMMC für Systemspeicher
- 2x isolierte serielle Schnittstellen RS-232/422/485
- 2 x 10/100/1000 Ethernet
- 1 x M.2 E-key for WIFI
- 1 x M.2 B-key für 5G oder 4G/LTE
- Betriebstemperaturbereich -20°C to 70°C

Beschreibung

Das MXA-200 ist ein leistungsstarkes IIoT-Gateway auf Basis von i.MX8M Plus, das über ein offenes Plattformdesign mit Quad-Core-Prozessor, zwei isolierte serielle RS-232/422/485-Ports, zwei 10/100/1000-Ethernet-Ports, zwei USB-3.0-Ports und einen Betriebstemperaturbereich von -20~70°C verfügt. Es bietet zwei M.2-Steckplätze für die Integration von Wi-Fi/4G/5G-Modulen. MXA-200 ermöglicht Systemintegratoren die Entwicklung von Anwendungen für erneuerbare Energien, EV-Ladegeräte, Smart City und Fabriken, die eine massive Datenerfassung, cloudbasierte Anwendungen und videogestützte Überwachungslösungen erfordern.

Specifications

Processor System	CPU	i.MX8M Plus ARM Cortex A53 Quad Core 1.6GHz
	Main memory	DDR4L 2GB (Option 4GB)
	Main storage	32GB eMMC
	Sub storage	microSD
	TPM	TPM2.0
	RTC	Monthly difference max.180sec
	WDT	Support Watch dog timer
I/O Interfaces	USB	2x USB 3.0 Type A
	Ethernet	2x GbETH
	Serial	2x RS232/422/485 4-wire
	Display output	1x HDMI
	WiFi/BT	1x M.2 E-key for WiFi/BT
	Expanded I/F	1x M.2 B-key (USB 3.0) for 5G or 4G/LTE
	Power supply	12-24VDC
Mechanical and Environmental	Cooling method	FAN less natural air cooling
	Operating temp	-20°C to 70°C
	Storage temp	-25°C to 85°C
	Outline dimension	110.5 (L) x 40 (W) x 126.5 (H) mm
	Mounting	Din rail/Wall
	Vibration resistance	IEC/EN 61131-2 compliant 5 to 9 Hz Single amplitude 3.5 mm (0.14 in) 9 to 150 Hz Fixed acceleration: 9.8 m/s ² X, Y, Z directions for 10 cycles (approximately 100 minutes)
	Shock resistance	IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for 3 times
	Electrical fast transient/ burst immunity	IEC 61000-4-4 2 kV: Power port, 1 kV: Signal ports
	ESD immunity	IEC/EN 61000-4-2 Level 3 Contact discharge method: 6 kV, Air discharge method: 8 kV
Certification	UL	cULus 61010 for IT equipment's
	EMC	CE / UKCA / RCM / KC / EAC/FCC



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