MXA-200 series

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

Preliminary

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 IoT
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.

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/s2 X, Y, Z directions for 10 cycles (approximately 100 minutes)
	Shock resistance	IEC/EN 61131-2 compliant 147 m/s2, 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