MXA-200 series

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



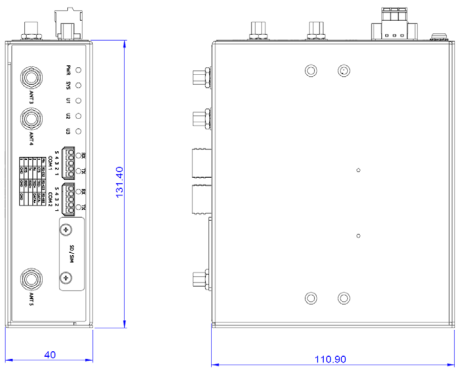
Features

- NXP Arm® Cortex®-A53 i.MX8M Plus Quad/Dual up to 1.8 GHz
- Onboard LPDDR4 2 GB / 4 GB, 4000MT/s memory
- 2 isolated RS-232/422/485, 2 USB 3.0, 2 GbE LAN, 1 Micro SD, 1 HDMI (1920x1080 at 60Hz)
- Support 1 M.2 2242 B-key Slot for 5G/4G/LTE, 1 M.2 2230 E-Key Slot for Wifi
- 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 to 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.

Dimension



Ordering Information

- MXA-200/M2G/Debian
  MXA-200 iMX8MP DDR4L 2GB with Debian
- MXA-200/M4G/Debian
  MXA-200 iMX8MP DDR4L 4GB with Debian
- MXA-200/M2G/Yocto
  MXA-200 iMX8MP DDR4L 2GB with Yocto
- MXA-200/M4G/Yocto
  MXA-200 iMX8MP DDR4L 4GB with Yocto

Accessory

- 31-62187-1000-A0
  AC-DC Power adapter 90W
- 91-95347-3010
  WiFi Kit for MXA-200
- 91-95347-4010
  5G Kit for MXA-200
- 91-95347-1010
  4G/LTE Kit for MXA-200

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Specifications

Processor System	CPU	i.MX8M Plus ARM Cortex A53 Quad Core 1.8GHz
	Main memory	LPDDR4 2GB/4GB 4000 MT/s
	Main storage	32GB/64GB eMMC (Onboard)
	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 GbE
	Serial	2x isolated RS-232/422/485 4-wire
	Display output	1x HDMI up to 3840 x 2160 at 30Hz
	WiFi/BT	1x M.2 2230 E-key for WiFi/BT
	Expanded I/F	1x M.2 2242 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	131 (H) x 40 (W) x 110.5 (L) 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 EMC	cULus 61010 for IT equipment's CE / FCC class A/ UKCA / RCM / KC / EAC

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