EMU-200 Series

Arm-based Application Ready and Programmable IIoT Gateway



Features

- Python-enabled programmable open platform for customized applications at the edge
- Supported communication protocols include Modus TCP/RTU, MQTT, OPC UA and Restful
- Supports Azure, AWS cloud connection flexible configuration for different user scenarios with wizard
- NXP i.MX 8M Plus with 4x Arm Cortex-A53 cores @1.8GHz 2GB DDR4 RAM (EMU-210)
- TI AM4376 ARM Cortex-A9 @1.0GHz(EMU-200)
- 32GB eMMC system storage
- Supports 5G/4G/LTE, and Wi-Fi communication (optional, only EMU-210 supports 5G)
- Operating Temperature -40°C to 70°C (-20°C to 70°C for EMU-210)

Introduction

The EMU-200 series is an Arm-based IIoT gateway that bridges OT and IT, enhancing data flow and cloud integration.

The EMU-210 is a high-performance IoT gateway based on the i.MX 8M Plus, featuring an open platform design with a quad-core processor, making it suitable for edge computing and AIoT applications that demand higher performance. In contrast, the EMU-200 is a cost-effective IoT gateway powered by an Arm Cortex-A9 @1.0GHz. It facilitates communication across Wi-Fi, Ethernet, or serial-based protocols, enabling extensive device integration into networks. Both the EMU-200 and EMU-210 enable system integrators to develop applications specifically for renewable energy, EV chargers, and factories that require extensive data collection and cloud-based applications.

The EMU-200 Series built-in EGiFlow allows configuration via web browser of serial port, Ethernet, Wi-Fi, cellular, time synchronization and transport I/O data. It also includes a no-code interface for protocol translation and iApp for pyth-enabled user-defined data analytics at the edge.

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Ordering Information

- EMU-210
  Built-in EGiFlow allows configuration via web browser
- EMU-210L
  Open platform with pre-installed Debian 11 provides Serial Port/Network Configuration API easily configure and manage serial port and network settings
- EMU-200
  Built-in EGiFlow allows configuration via web browser
- EMU-200-W
  Built-in EGiFlow allows configuration via web browser with Wi-Fi enabled
- EMU-200L
  Open platform with pre-installed Debian 11
- EMU-200L-W
  Open platform with pre-installed Debian 11 with Wi-Fi enabled

  *** EMU-200-W/EMU-200L-W Available regions: Europe/Australia and New Zealand/North America/Taiwan

Accessories

EMU-210

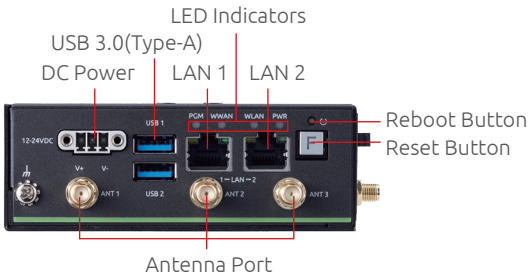
- AC-DC ADAPTER 90W
  FSP, FSP090-AAAN3, Input :100~240V AC, Output: 24V DC/3.75A
- WiFi Kit
  Intel® Wi-Fi 6E AX210 with Bluetooth
- 5G Kit
  Telit: MV32-W for Global
- 4G LTE Kit
  Quectel EM05-G M.2 4G LTE, Cat 4 for Global

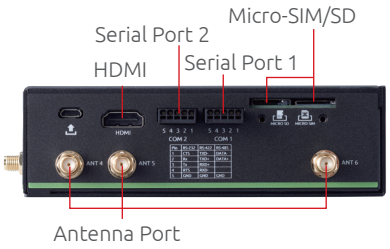
EMU-200

- AC-DC ADAPTER 40W
  MEANWELL, GST40A24-AD, Input: 90-264V AC/40W, Output: 24V DC/1.67A
- 4G LTE Kit
  - Sierra EM7411 M.2 4G LTE, Cat 7 for USA and Canada
  - Sierra EM7421 M.2 4G LTE, Cat 7 for EU and Taiwan
  - Quectel EM05-E M.2 4G LTE, Cat 4 for Europe/Australia/Taiwan
  - Quectel EM05-CE M.2 4G LTE, Cat 4 for China
  - Quectel EM05-G M.2 4G LTE, Cat 4 for Global

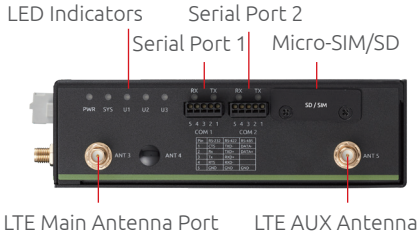
Product Illustration

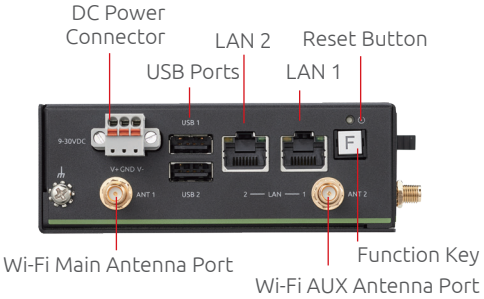
EMU-210





EMU-200





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Specifications

Model	EMU-210	EMU-200	EMU-200-W
System			
Processor	i.MX8M Plus Arm Cortex-A53 Quad-Core 1.8GHz	Arm Cortex-A9 1.0 GHz	
Memory	LPDDR4 2GB	DDR3 1GB	
NAND Flash (eMMC)	32 GB eMMC		
Wi-Fi	N/A		2.4GHz/5GHz
OS	Debian 11		
Configuration Interface	EGiFlow		
I/O Interface			
Ethernet	2x RJ45 10BASE-T/100BASE-TX/1000BASE-T ports		
Serial Ports	2x isolated RS-232/422/485 4-wire		
Display output	1x HDMI	N/A	
USB	2x USB 3.0 (Type-A)	2x USB 2.0 (Type-A)	
M.2	1x M.2 E-key for Wi-Fi/BT 1x M.2 B-key (USB 3.0) for 5G or 4G/LTE	1x M.2 B-key (USB 2.0) for 4G/LTE	
Micro-SIM	1		
Exteranl Storage			
Storage Slot	1x MicroSD		
Mechanical			
Dimensions	110.90 (L) x 40 (W) x 131.4 (H) mm		
Mounting	DIN rail kit and wall mount kit		
Housing	Metal, IP40		
Power Supply			
DC Input	12 to 24V	9 to 30V	
Environmental			
Operating Temperature	-20°C to 70°C	-40°C to 70°C	
Storage Temperature	-25°C to 85°C	-40°C to 85°C	
Vibration Resistance	IEC 60068-2-64 compliant Operating: 2 Grms, 5-500 Hz, 3 axes		
Shock Resistance	IEC 60068-2-27 compliant Operating: 20 G, Pulse width: 11 ms duration, 3 times per axis		
Certifications			
EMC	CE / UKCA / RCM / KC / FCC EN/IEC 61000-6-4:2019; EN/IEC 61000-6-2:2019 47 CFR FCC Part 15 Subpart B, class B	CE/FCC/ICES-003/RCM/BSMI, Class A EN 55032, EN 55035, EN 61000-6-2, EN 61000-6-4, CNS 15936	
Safety	IEC 62368-1:2014; EN 62368-1:2014+A11:2017 UL 61010-1; CSA C22.2 No.61010-1 UL 61010-2-201; CSA C22.2 No.61010-2-201	IEC/EN/UL 62368-1	
RF	NA		CE-RED (EN 300328, EN300440, EN 301489 -1/-17, EN301893), RCM, FCC, ISED, NCC

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