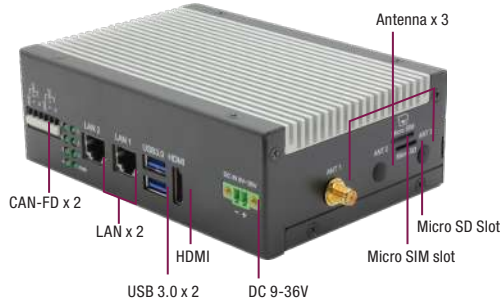


SRG-IMX8P

Standard RISC Gateway with ARM i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor

Front View



Rear View

Pinout	PIN	CAN1 Definition	CAN2 Definition
1	H	H	H
2	L	L	L
3	GND	GND	GND



Pinout	PIN	COM P1 Definition	COM P2 Definition
1	DCD1	DCD2	
2	RXD1	RXD2	
3	TXD1	TXD2	
4	DTR1	DTR2	
5	RTS1	RTS2	
6	CTS1	CTS2	
7	GND	GND	

With Antennas installed



Features

- NXP i.MX8M Plus Quad Cortex-A53 1.6 GHz RISC Processor
- Onboard LPDDR4 2GB / eMMC 16GB (Optional 4GB RAM/ eMMC 32GB)
- HDMI 2.0a
- GbE x 2
- USB 3.0 x 2, Full size mPCIe x 2, CAN-FD x 2 CH, Micro SD Card Slot x 1, RTC, TPM 2.0
- Wide DC Input 9~36V
- Wide Temperature -20 °C ~ 70 °C
- UL61010 certificated; PLC and heavy industry IEC61000-6-2, IEC61000-6-4, IEC61131-2 qualified
- Pre-Install Linux Debian 11; Support Android 13, Win 10 IoT, Yocto
- Supports Modbus/ MQTT Library/ OPCUA/ Security boot/ GUI/ Machine learning eIQ (by request)



Specifications

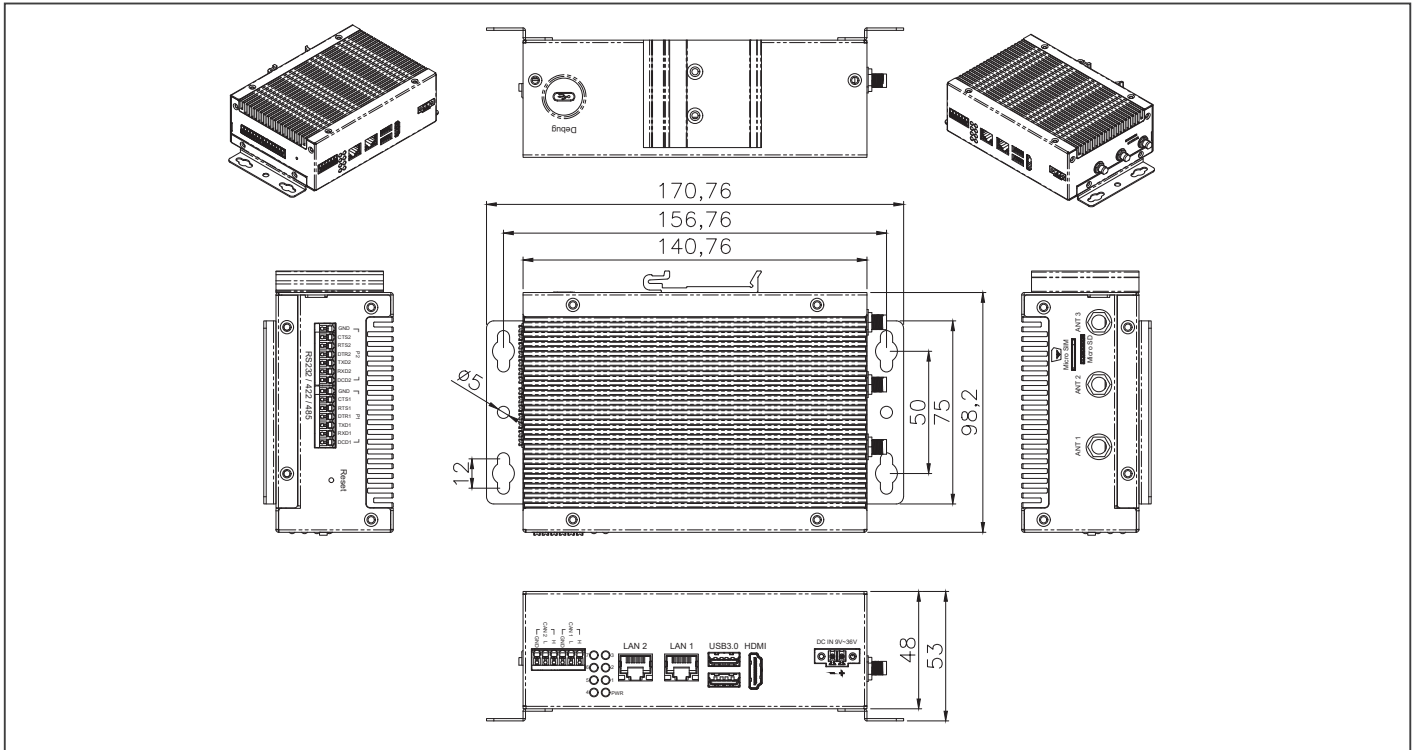
System	
Processor	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor
Memory	Onboard LPDDR4 2GB (Optional 4GB)
Storage	eMMC 5.1 16GB (Optional 32GB)
Real Time Clock	RTC x 1, with 3V CR2032H Lithium battery
Security	TPM 2.0
Indicators	Programmable LED control x 7
Cellular	Mini PCIe Connector x 1 (USB signal)
Wireless Lan	Mini PCIe Connector x 1 (USB signal)
Operating System	Debian 11(Default, GUI is optional) Android 13 Win 10 IoT Yocto
Support Protocol	Modbus / MQTT Library (by request)
I/O Interfaces	
Serial Port	RS-232/422/485 switchable x 2, Phoenix Connector
Ethernet	Gigabit Ethernet x 2, RJ-45
Audio	—
USB	USB 3.0, Type-A x 2
ADC	—
DI/DO	—
CAN Bus	CAN-FD x 2 CH, Phoenix Connector
Display	HDMI 2.0a x 1
Power Connector	2 Pin 3.81mm Pitch Phoenix Connector
Debug Port	Micro USB x 1
Expansion Slot	SIM card slot x 1 Micro SD slot x 1
Other Interface	—
Power Supply	
Power Requirement	DC 9-36V
Power Consumption	9.36W (Full Loading)
MTBF (Hours)	479,374
Environmental and Mechanical	
Dimension	5.54" x 3.86" x 1.89" (140.76 x 98.2 x 48 mm)
Weight	2.6lb (1.18kg)
Mount Options	Wall Mount, Din Rail (Optional)
Operation Temperature	-4 °F ~ 158 °F (-20 °C ~ 70 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	10% ~ 95% relative humidity, non-condensing
Certification	CE/FCC Class A UL61010/IEC61000-6-2/IEC61000-6-4/IEC61131-2

Packing List

- SRG-IMX8P x 1
- 2pin 3.81mm Power Terminal block w/lock AWG 28-14 x 1

Dimension

Unit: mm



Ordering Information

Part Number	CPU	NPU	Memory	Display	Storage	LAN	USB	COM	Expansion Slot	Power	Operating Temp	Audio	Others	OS
SRG-IMX8P-A11-0216	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	Onboard LPDDR4 1866MHz 2GB	HDMI x 1	eMMC 16GB MicroSD x1	GbE x 2	USB 3.0 x 2	RS-232/422/485 x 2, Phoenix	Mini PCIe Slot x 2 SIM card socket x 1	DC 9-36V	-20°C ~ 70°C	—	CAN-FD x 2 CH, Phoenix 3G/4G LTE module Wifi/BT Module (optional)	Debian 11
SRG-IMX8P-A11-0432	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	Onboard LPDDR4 1866MHz 4GB	HDMI x 1	eMMC 32GB MicroSD x1	GbE x 2	USB 3.0 x 2	RS-232/422/485 x 2, Phoenix	Mini PCIe Slot x 2 SIM card socket x 1	DC 9-36V	-20°C ~ 70°C	—	CAN-FD x 2 CH, Phoenix 3G/4G LTE module Wifi/BT Module (optional)	Debian 11
SRG-IMX8P-A11-W432	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.7GHz Processor	2.3 TOPs	Onboard LPDDR4 1866MHz 4GB	HDMI x 1	eMMC 32GB MicroSD x1	GbE x 2	USB 3.0 x 2	RS-232/422/485 x 2, Phoenix	Mini PCIe Slot x 2 SIM card socket x 1	DC 9-36V	-20°C ~ 70°C	—	CAN-FD x 2 CH, Phoenix 3G/4G LTE module Wifi/BT Module (optional)	Win 10 IOT for ARM64

Installation Scenario



DIN-Rail Mount Illustration



Wallmount Illustration

Optional Accessories

Part Number	Description
9741EG2560	PCIe mini card. 4G LTE. module kit. Global Band W/SIM holder. W/Cable & antenna. Quectel. EG25-G
9741EC25E0	PCIe mini card.4G LTE. module kit. W/Cable & Antenna. Quectel. EC25-E
9741236A00	Mini card Wifi Kit.802.11ac/a/b/g/n. BT4.2. W/Cable&Antenna.SparkLan.WPET-236ACN(BT)
9651IM8P00	Windows® 10 IoT Enterprise LTSC Base for Arm64 EPKEA (only for SRG-IMX8P 4G RAM SKU)
1255300611	Power Adapter.DC.100/240V.12V.5A.60W.2P Phoenix P=3.81mm.
170203180J	POWER CORD.3P-250V 13A.1.8M.UK
9651IMX802	DIN rail kit. SRG-IMX8P series
9651IMX801	Wall mount kit.SRG-IMX8P series