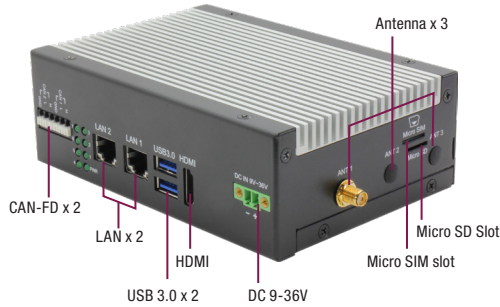


SRG-IMX8P

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

Front View



Rear View



With Antennas installed



(Antennas: Optional Accessories)

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	

Features

- i.MX8M Plus Quad Cortex-A53/M7 1800 MHz RISC Processor
- Onboard DDR4L 2GB / eMMC 16G (Optional 4G RAM / eMMC 32G)
- USB 3.0 x 2
- Gigabit Ethernet port x 2
- CAN-FD x 2CH
- Mini PCIe connector (For RF Module) x 2
- Micro SD Card Slot x 1
- Support RTC, TPM 2.0
- Wide Voltage DC9V-36V
- Wide Temperature -20 °C ~ 70 °C
- Pre-Install Linux Debian
- Supports Modbus/MQTT Library (by request)



Specifications

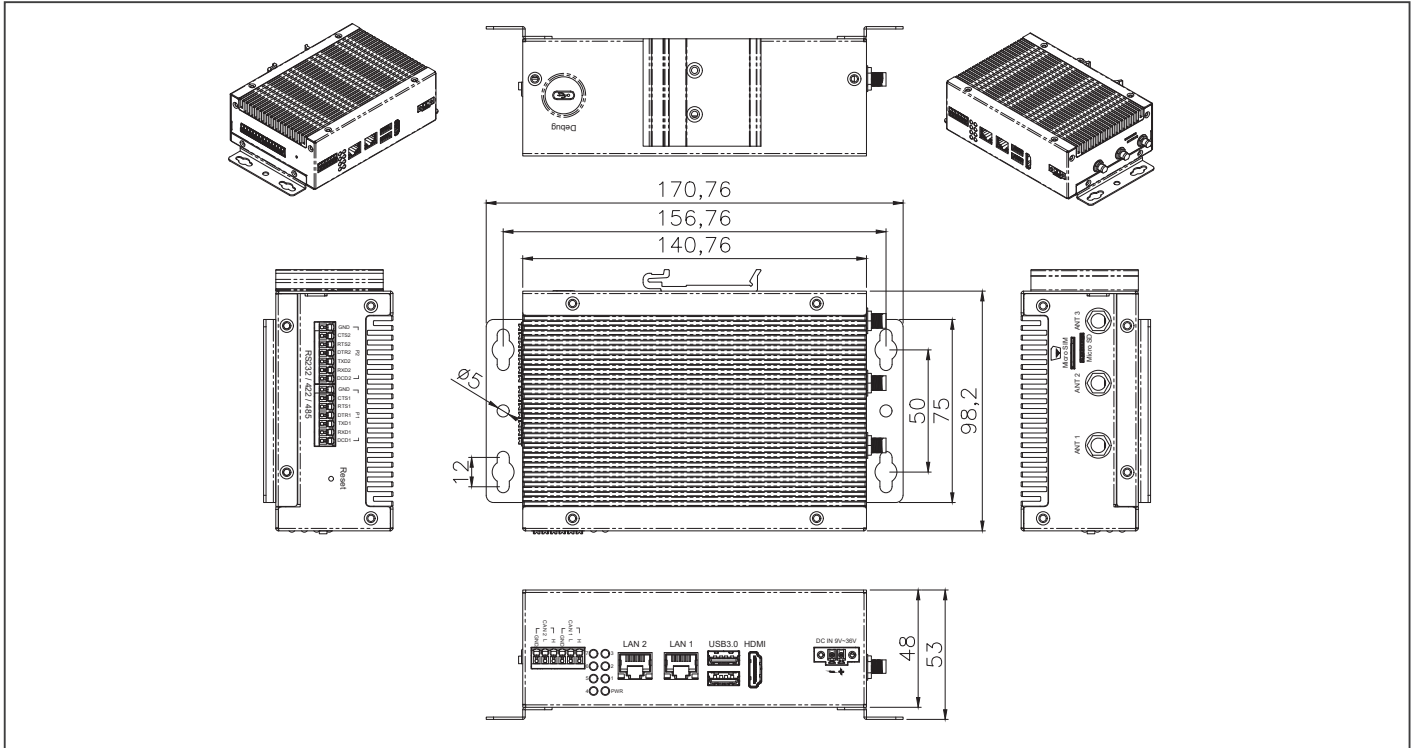
System	
Processor	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor
Memory	Onboard DDR4L 2GB (Optional 4GB)
Storage	eMMC 16G (Optional 32GB)
Real Time Clock	RTC x 1, with 3V CR2032 Lithium battery
Security	TPM 2.0
Indicators	Programmable LED control x 7
Cellular	Mini PCIe Connector x 1 (USB signal)
Wireless Lan	Mini PCIe Connector x 1 (USB signal)
Operating System	Debian 10
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
USB	USB 3.0, Type-A x 2
ADC	—
DI/DO	—
CAN Bus	CAN-FD x 2 CH, Phoenix Connector
Display	HDMI x1 (Output)
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	2.1lb (950 g)
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

Packing List

- SRG-IMX8P

Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Thermal	Ports	Storage	LAN	USB	Expansion slot	Power	Operation Temp.	Others
SRG-IMX8P-A10-0216	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	Onboard LPDDR4 1866MHz 2GB	Fanless	RS-232/422/485 x 2, Phoenix HDMI x 1 (Output) CAN-FD x 2 CH, Phoenix	eMMC 16GB, MicroSD x1	GbE x 2	USB 3.0 x 2	Mini PCIe slot x 2 SIM card socket x 1	DC 9-36V	-20°C ~ 70°C @ 0.5 m/s airflow	3G/4G LTE module Wifi/BT Module (optional)
SRG-IMX8P-A10-0432	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	Onboard LPDDR4 1866MHz 4GB	Fanless	RS-232/422/485 x 2, Phoenix HDMI x 1 (Output) CAN-FD x 2 CH, Phoenix	eMMC 32GB, MicroSD x1	GbE x 2	USB 3.0 x 2	Mini PCIe slot x 2 SIM card socket x 1	DC 9-36V	-20°C ~ 70°C @ 0.5 m/s airflow	3G/4G LTE module Wifi/BT Module (optional)

Installation Scenario



DIN-Rail Mount Illustration

Wallmount Illustration

Optional Accessories

- 9741EG25G0**
 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 with cable & Antenna, EC25-E
- 9741236A00**
 Mini card Wi-Fi Kit. 802.11ac/a/b/g/n, BT4.2, USB Signal, SparkLan, WPET-236ACN(BT), W/ cable & antenna signal, SparkLan, WPET-236ACN(BT) antenna
- 1255300611**
 Power Adapter. DC. 100/240V. 12V. 5A. 60W. 2p phoenix P=3.81mm. FSP.FSP060-DHAN3/9NA0608085
- 1702031802**
 POWER CORD. 3P-125V 10A 180D. 1.8M. USA. FANJET. YP12/YC-12
- 1702031803**
 POWER CORD. 3P-250V 10A 180D. 1.8M. EU. FANJET. YP-22/YC-12
- 170203180J**
 POWER CORD. 3P-250V 13A. UK type. 1830mm
- 1702031811**
 POWER CORD. 3P-125V. 10A. 180D. 1.8M. TWN/BSMI. FANJET. YP-12/YC-12
- 170203180E**
 Power cord. 3P. 125V/7A. 1.8M. PSE YP12/YC12 Certificate
- 9651IMX802**
 DIN rail kit. SRG-IMX8P series
- 9651IMX801**
 Wall mount kit. SRG-IMX8P series