

# SRG-IMX8P PRELIMINARY

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



## Features

- i.MX 8M 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 2
- 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

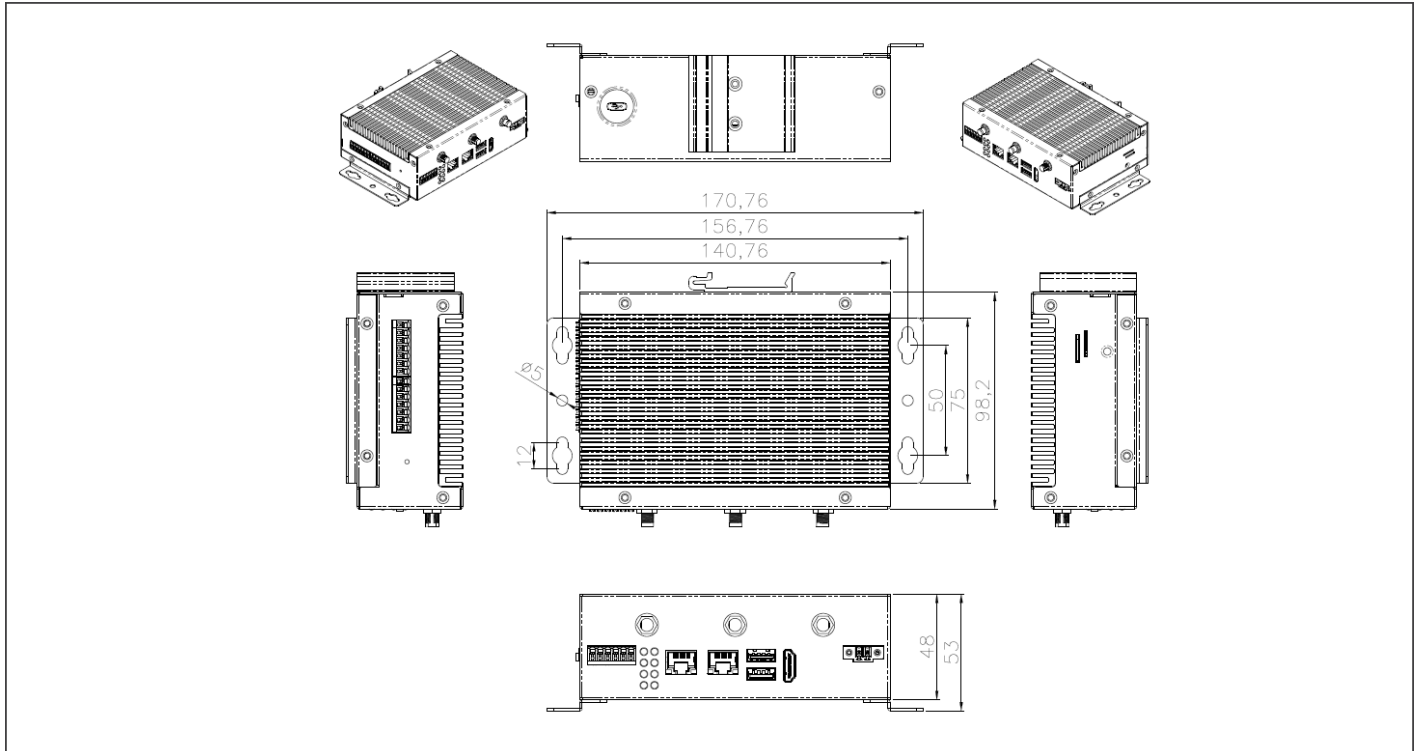
<b>System</b>	
Processor	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor
Memory	Onboard DDR4L 2GB (Optional 4GB)
Storage	eMMC 16G (Optional 32GB)
Real Time Clock	RTC x 1, with 3V CR2032 Lithium battery
Security	TPM 2.0
Indicators	Programmable LED control x 7
Cellular	Mini PCIe Connector x 1 (USB signal)
Wireless Lan	Mini PCIe Connector x 1 (USB signal)
Operating System	Debian 10
Support Protocol	Modbus / MQTT Library (by request)
<b>I/O Interfaces</b>	
Serial Port	RS-232/422/485 switchable x 2, Phoenix Connector
Ethernet	Gigabit Ethernet x 2, RJ45
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	—
<b>Power Supply</b>	
Power Requirement	DC 9-36V
Power Consumption	TBD
MTBF (Hours)	TBD
<b>Environmental and Mechanical</b>	
Dimension	6" x 4.5" x 2.17" (152.7 x 114.5 x 55.2 mm)
Weight	450 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)

## 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 WiFi Kit. 802.11ac/a/b/g/n, BT4.2. USB Signal. SparkLan. WPET-236ACN(BT). W/ cable & antenna signal. SparkLan. WPET-236ACN(BT) antenna
- **125530040D**  
Power Adapter. AC Input 100~240V/1.2A. DC output 12V/3.34A. 3pin phoenix plug-in. pitch=3.81mm.
- **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 Certificat
- **TBD**  
DIN rail kit. SRG-IMX8P series
- **TBD**  
Wall mount kit. SRG-IMX8P series