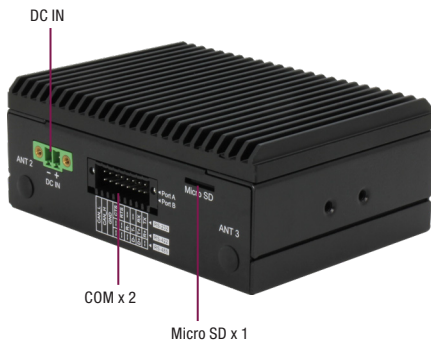
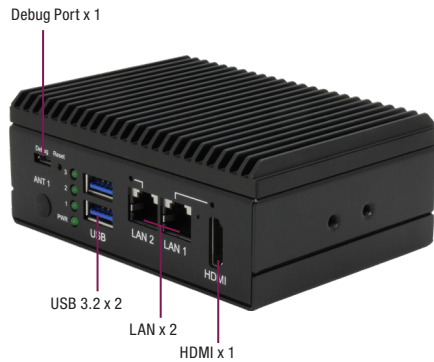


# SRG-IMX8PL

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



Phoenix Connector



## Features

- ARM NXP i.MX8M Plus Quad-Core, Cortex-A53 1.6GHz
- LPDDR4, up to 4 GB, eMMC 5.1 x 1
- HDMI 2.0 x 1
- GbE x 2
- USB 3.0 Gen 1 x 2
- M.2 2230 E Key x 1, Full-sized minicard x 1
- COM x 2, CAN x 2, TPM 2.0



## Specifications

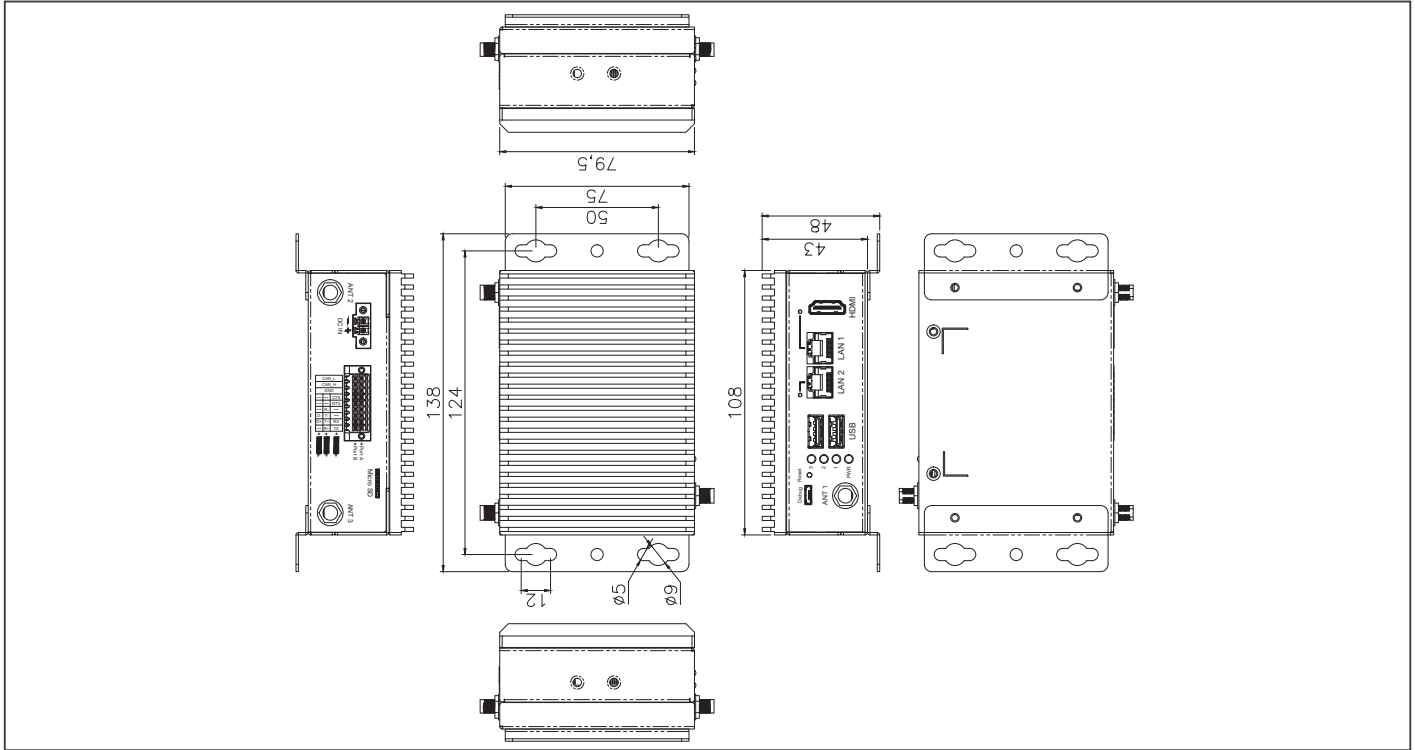
System	
Processor	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor (Default w/NPU, optional w/o NPU)
Memory	Onboard LPDDR4 up to 4GB (8GB by request)
Storage	eMMC 5.1 16/32GB (Optional 64/128 GB) Micro SD Card slot x 1
Real Time Clock	RTC x 1, with 3V CR2032H Lithium battery
Security	TPM 2.0 (optional)
Indicators	Programmable LED control x 3
Cellular	Full Size Mini Card x 1 (USB signal)
Wireless Lan	M.2 2230 E-key x 1 (USB, PCIe)
Operating System	Debian 11 (Default, GUI is optional) Android 13 Win 10 IoT Yocto 4.0
Support Protocol	Modbus, MQTT, OPCUA
I/O Interfaces	
Serial Port	RS-232/422/485 switchable x 2, Phoenix Connector
Ethernet	Gigabit Ethernet x 2, RJ-45 support IEEE 1588, TSN, integrated RGMII
Audio	Line Out x 1 (optional)
USB	USB 3.0 Type-A x 2
ADC	—
DI/DO	—
CAN Bus	CAN-FD x 2 CH, Phoenix Connector
Display	HDMI 2.0 x 1
Power Connector	2 Pin 3.81mm Pitch Phoenix Connector
Debug Port	Micro USB x 1
Expansion Slot	M.2 2230 E-key x 1, support Wifi/BT module Full Size Mini Card x 1, support 4G module, etc) Power control available by software
Other Interface	—
Power Supply	
Power Requirement	DC 9-36V (Optional: 12V)
Power Consumption	14.8W (Full Loading)
MTBF (Hours)	1,699,754 Hours
Environmental and Mechanical	
Dimension	4.25" x 3.12" x 1.69" (108mm x 79.5mm x 43mm)
Weight	1.01 lbs (0.46kg)
Mount Options	Wall Mount, Din Rail (Optional)
Operation Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A

## Packing List

- SRG-IMX8PL x 1
- 2pin 3.81mm Power Terminal block w/lock AWG 28~14 x 1
- 18pin 2.54mm Phoenix plug in Connector/lock AWG 30~20 x 1

## Dimension

Unit: mm



## Optional Accessories

Part Number	Description
9741EG25G0	PCIe mini card. 4G LTE. module kit. Global Band W/ SIM holder. W/Cable & antenna. Quectel. EG25-G
9651882200	M.2 2230 E key Wireless Kit.802.11 ac/a/b/g/n + BT 5.0.2T2R,Enli RTL-8822CE.w/2 sets of cable and antenna
9651PX8L00	AC/DC Adapter.100V-240V.12VDC.40W.3.34A (for sample order), w/packaging box
125530040D	Power Adapter.DC.100-240V.12V.3.34A.40W.3P Phoenix P=3.81mm.
170203180J	POWER CORD.3P-250V 13A.1.8M.UK
170X000799	POWER CORD.3P-125V 10A.1.8M.USA
170X000800	POWER CORD.3P-250V 10A.1.8M.EU
170X000806	POWER CORD.3P-125V 7A.1.8M.TWN
170X000803	POWER CORD.3P-125V 7A.1.8M.JPN
9651IMX804	Wall mount kit. 75x27mm
9651IMX803	DIN rail kit.25mm

## Ordering Information

Part Number	CPU	NPU	Memory	Display	Storage	LAN	USB	COM	Expansion Slot	POWER	Operating Temp	Audio	Others	OS
SRG-IMX8PL-A10-0001	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	Onboard LPDDR4 2GB	HDMI x 1	eMMC 16GB MicroSD x 1	GbE x 2	USB 3.0 Gen1 x 2	RS232(4-wire)/422/485 x 2	M.2 2230 E-key x 1 miniCard (Full) x 1	+12V (Lockable terminal block)	-40°C ~ 80°C	—	CAN 2.0 FD x 2	Debian 11
SRG-IMX8PL-A10-0002	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	Onboard LPDDR4 4GB	HDMI x 1	eMMC 32GB MicroSD x 1	GbE x 2	USB 3.0 Gen1 x 2	RS232(4-wire)/422/485 x 2	M.2 2230 E-key x 1 miniCard (Full) x 1	+ 9 ~36 V (Lockable terminal block)	-40°C ~ 80°C	—	TPM x 1 CAN 2.0 FD x 2	Debian 11