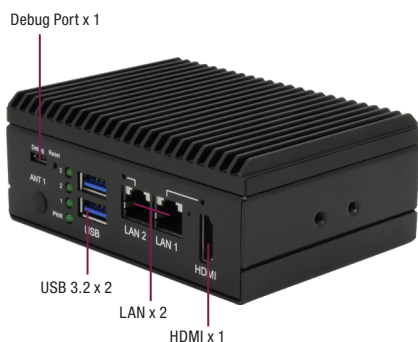


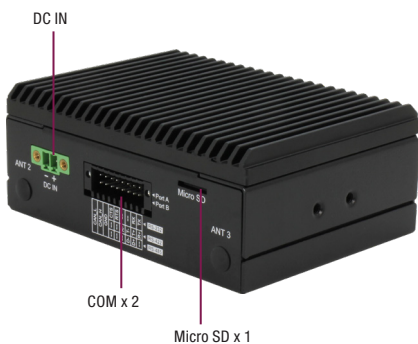
SRG-IMX8PL

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

Front View



Rear View



SRG-IMX8PL-A12



Installation Scenario

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) Debian 12 (By request) Android 13 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 Nano SIM card slot x 1 (for SRG-IMX8PL-A12 only)
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), IEC60068-2 with 0.7 m/s AirFlow, with wide temperature Memory/Storage
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A

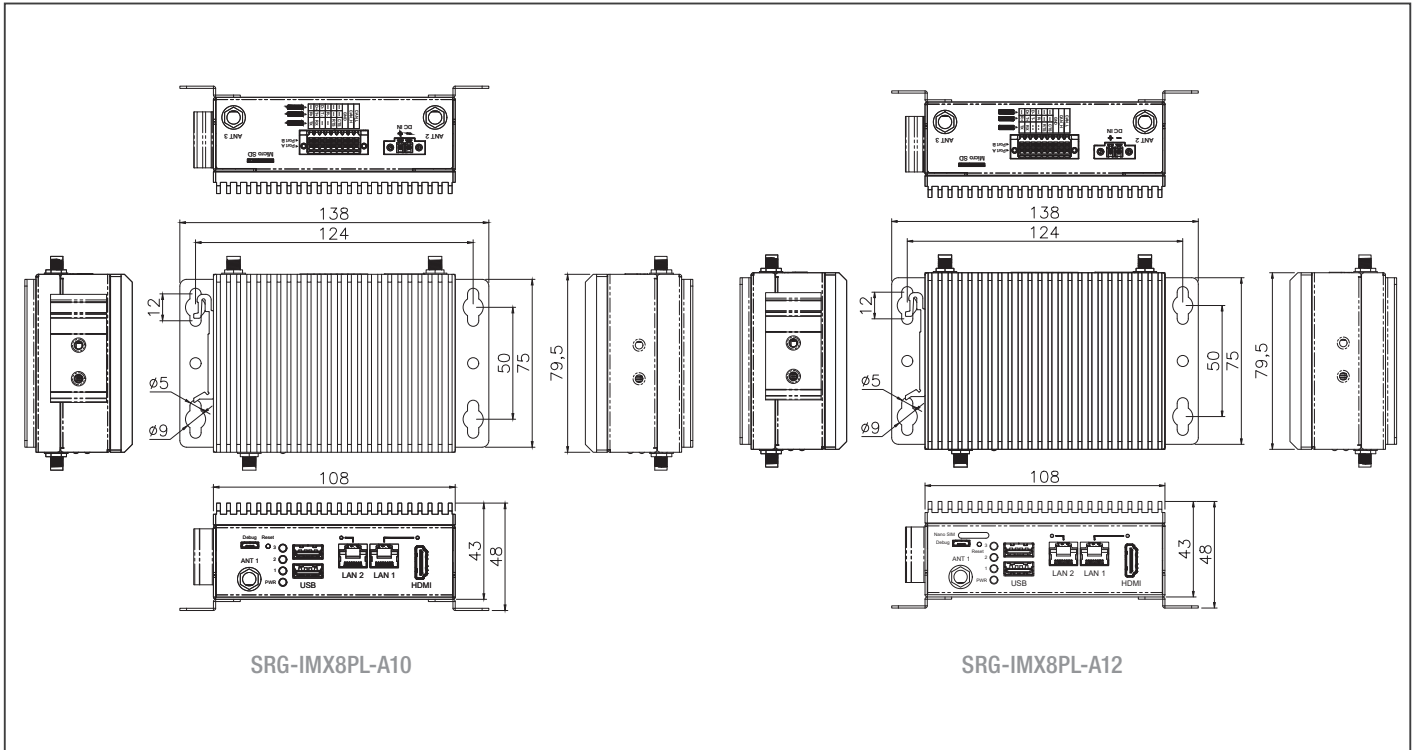
Packing List

- 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
9651276000	M.2 2230 E Key Wireless Kit.802.11a/b/g/n/ac.W/2 sets of antenna and cable.Chipset:NXP 88W8997.Azurewave.CM-276MA-PUR for Android
9651PX8L00	Power Adapter.DC.100/240V.12V.5A.60W.2p phoenix P=3.81mm.FSP.FSP060-DHAN3/9NA0608085.(for sample order), w/packaging box
1255300611	Power Adapter.DC.100/240V.12V.5A.60W.2p phoenix P=3.81mm.FSP.FSP060-DHAN3/9NA0608085
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
SRG-IMX8PL-A12-0001	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	Onboard LPDDR4 2GB	HDMI x 1 (rear I/O)	eMMC 16GB, MicroSD x 1	GbE x 2	USB 3.0 Gen1 x 2 (rear I/O)	RS232(4-wire)/422/485 x 2	M.2 2230 E-key x 1 miniCard (Full) x 1 Nano SIM card slot x 1	+12V (Lockable terminal block)	-40°C ~ 80°C	—	CAN 2.0 FD x 2	Debian 11
SRG-IMX8PL-A12-0002	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	Onboard LPDDR4 4GB	HDMI x 1 (rear I/O)	eMMC 32GB, MicroSD x 1	GbE x 2	USB 3.0 Gen1 x 2 (rear I/O)	RS232(4-wire)/422/485 x 2	M.2 2230 E-key x 1 miniCard (Full) x 1 Nano SIM card slot x 1	+9 ~36 V (Lockable terminal block)	-40°C ~ 80°C	—	TPM x 1 CAN 2.0 FD x 2	Debian 11