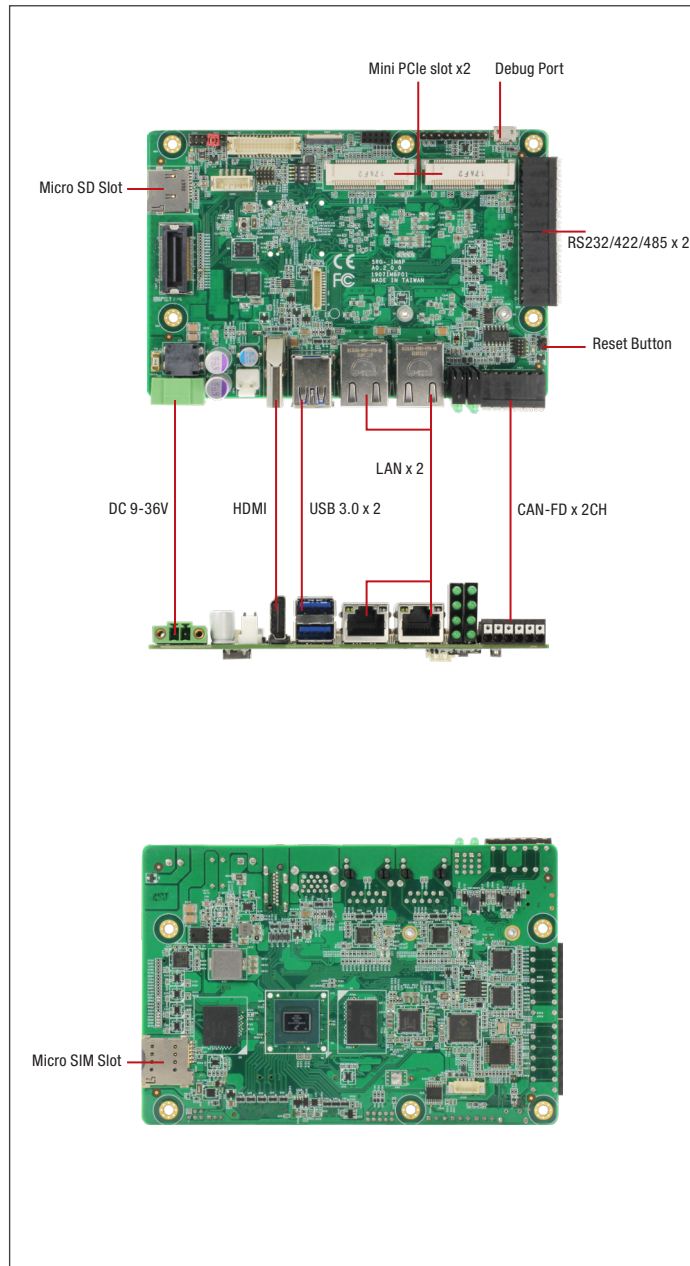


SRT-IMX8P



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



Specifications

System	
Processor	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor (NPU Optional)
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	—
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	—

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)



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	Board to board connector to ODM board (PCIe Gen3 x 1, USB 3.0 x 1, I2C x 2, GPIO x 4)
Power Supply	
Power Requirement	DC 9-36V
Power Consumption	9.36W (Full Loading)
MTBF (Hours)	479,374
Environmental and Mechanical	
Dimension	3.66" x 5.43" (93 x 138mm)
Weight	0.71lb (350 g)
Mount Options	—
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

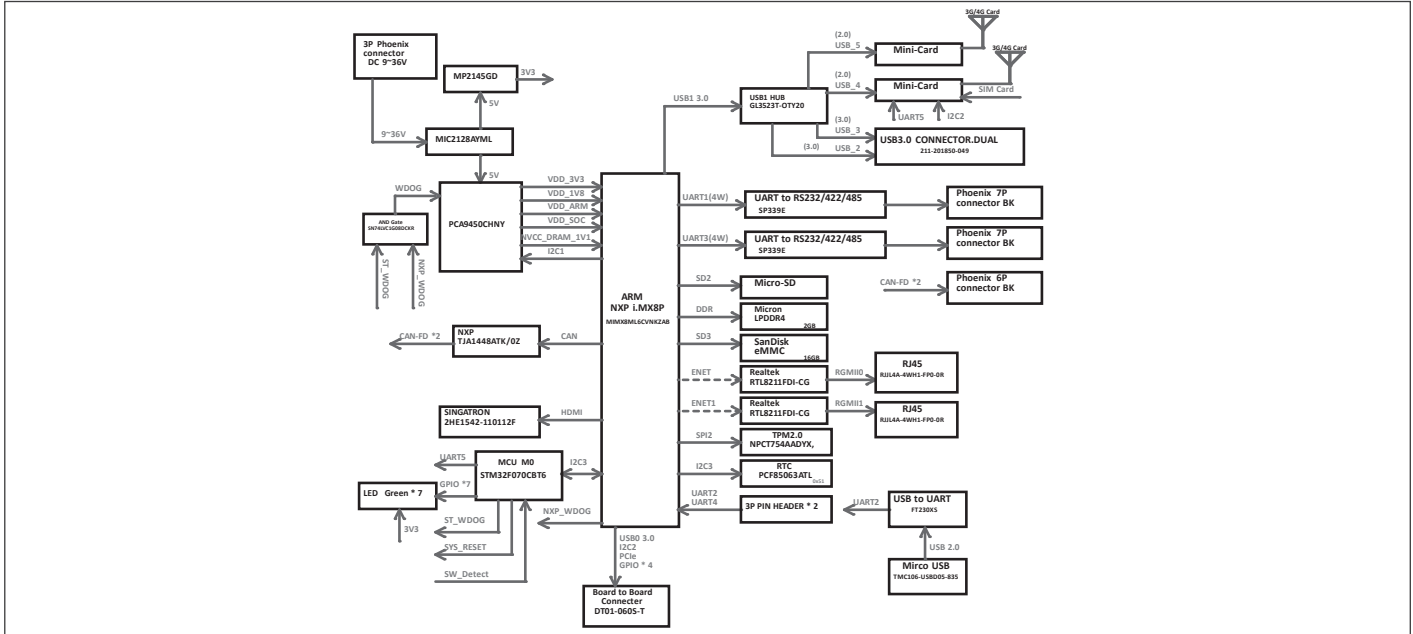
- SRT-IMX8P

Optional Accessories

Part Number	Description
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. 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)
1255300611	Power Adapter. DC. 100/240V. 12V. 5A. 60W. 2P Phoenix P=3.81mm.
170203180J	POWER CORD. 3P-250V 13A. 1.8M. UK
9651IM8P00	Windows® 10 IoT Enterprise LTSC Base for Arm64 EPKEA (only for SRG-IMX8P 4G RAM SKU)
SRT-IMX8P-HSK01	HeatSink. 135*91*9mm. for SRT-IMX8P

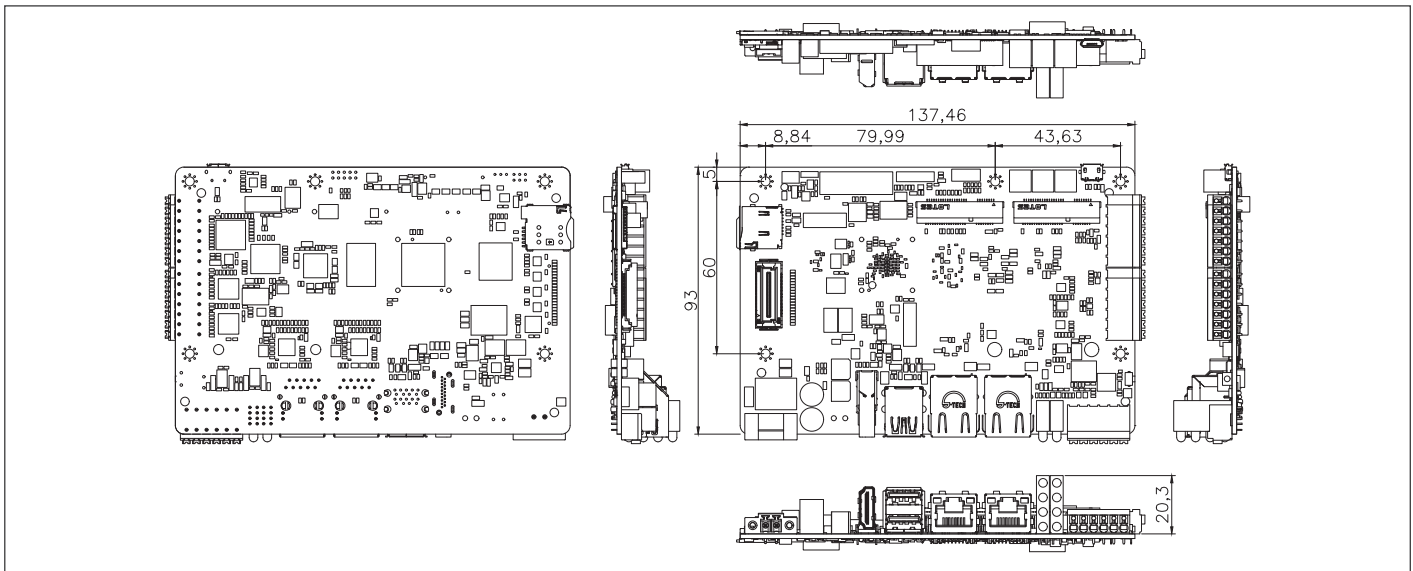


Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	NPU	Memory	Thermal	Ports	Storage	LAN	USB	Expansion slot	Power	Operation Temp.	Others
SRT-IMX8P-A11-0216	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	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)
SRT-IMX8P-A11-0432	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	2.3 TOPs	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)