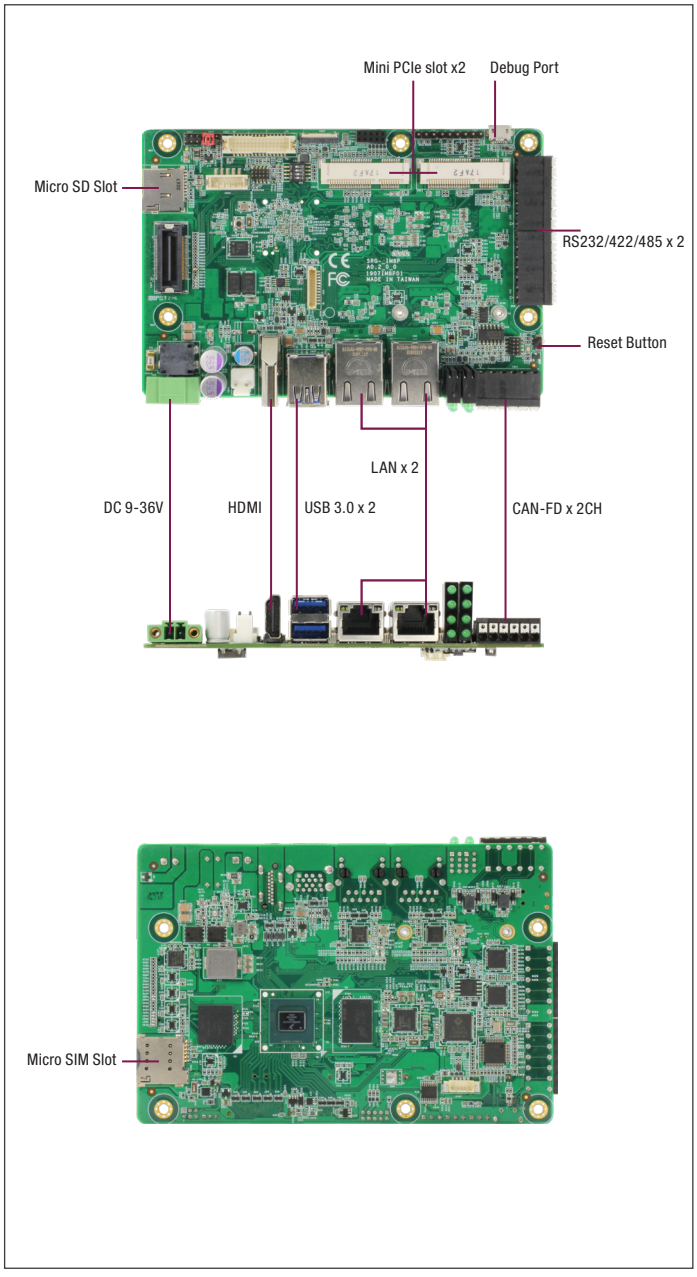
SRT-IMX8P

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



Features

- i.MX 8M Plus Quad Cortex-A53 1.6 GHz RISC Processor
- Onboard DDR4L 2GB / eMMC 16GB (Optional 4GB RAM/ eMMC 32GB)
- 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 DC 9V-36V
- Wide Temperature -20 °C ~ 70 °C
- Pre-Install Linux Debian

LPDDR4L USB 3.0 CE FC

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	3.66" x 5.43" (93 x 138mm)
Weight	0.7lb (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

Specifications

System	
Processor	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor (NPU Optional)
Memory	Onboard DDR4L 2GB (Optional 4GB)
Storage	eMMC 16GB (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	—
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	—

Packing List

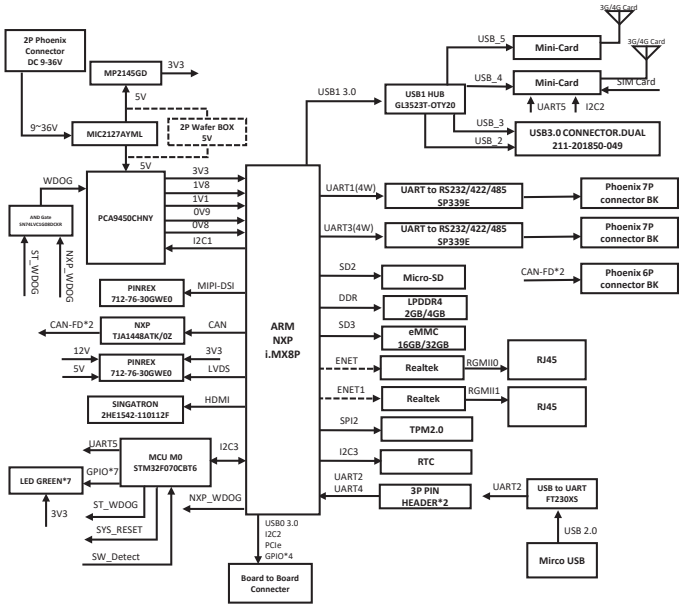
- SRT-IMX8P

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. 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.
- **1702031802**
  POWER CORD.3P-125V 10A.1.8M.USA.
- **1702031803**
  POWER CORD.3P-250V 10A.1.8M.EU.
- **170203180J**
  POWER CORD.3P-250V 13A.1.8M.UK
- **1702031811**
  POWER CORD.3P-125V 10A.1.8M.TWN
- **170203180E**
  POWER CORD. 3P-125V 7A.1.8M.JPN

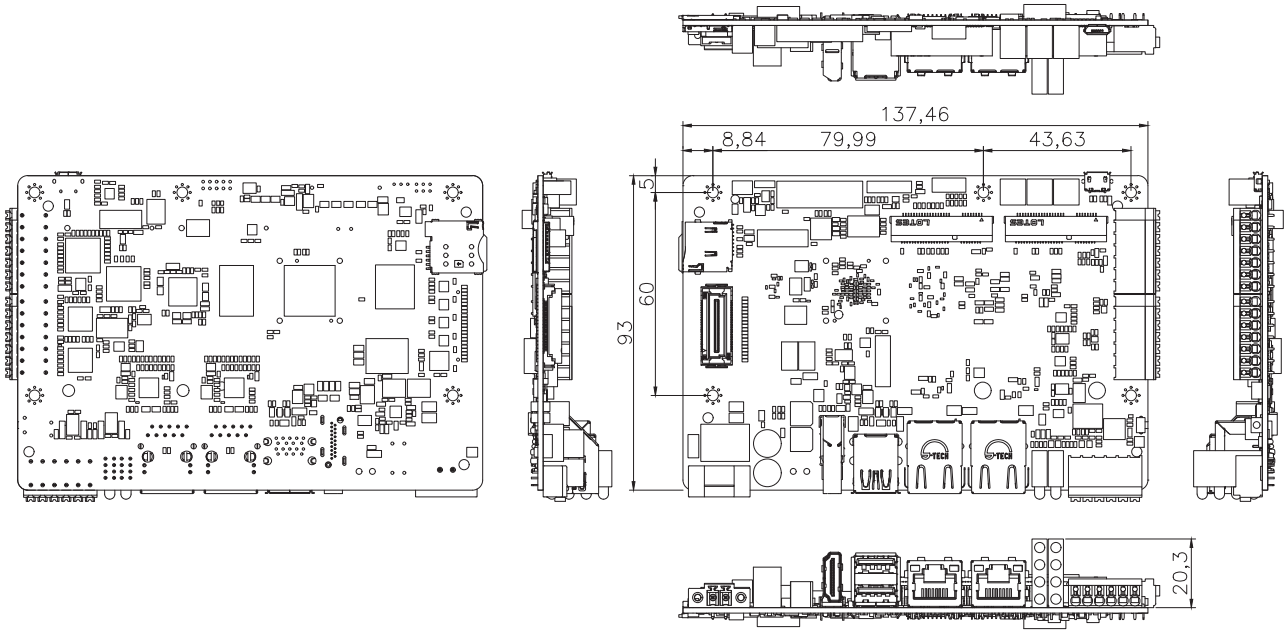
Note: All specifications are subject to change without notice.

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-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)
SRT-IMX8P-A10-0432	ARM NXP i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor	1X	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)