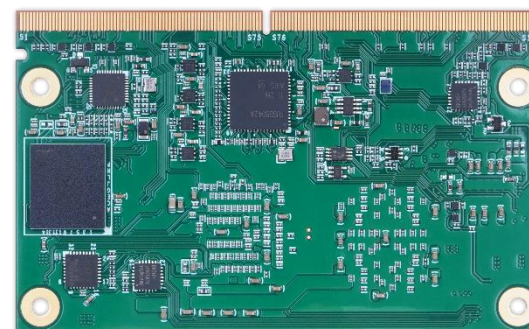


深圳金亚太科技有限公司

Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL: SMARC-IMX95

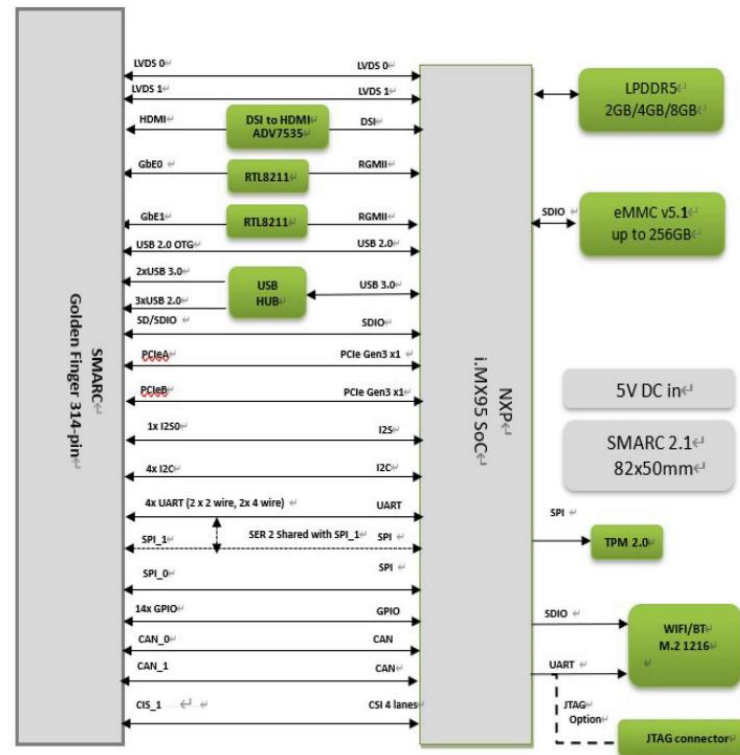


FEATURES

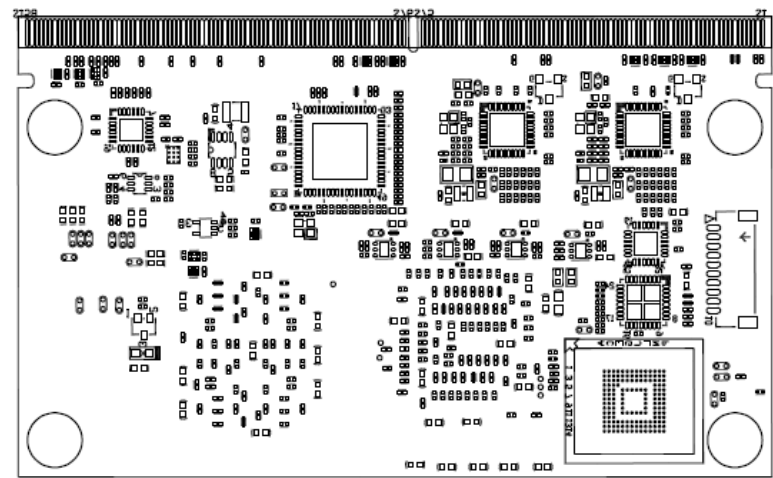
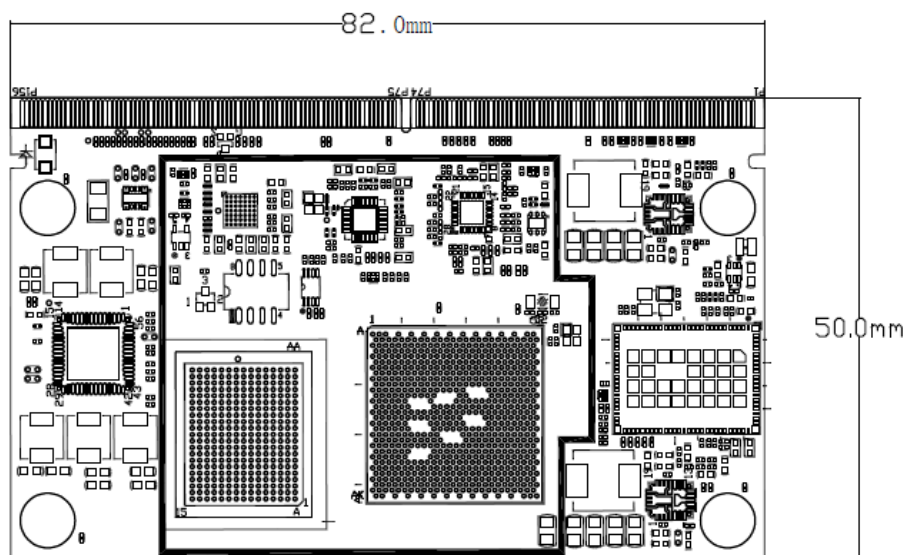
Processor	CPU	IMX95AEC
		6x Arm Cortex-A55, up to 1.8 GHz frequency 1x Arm Cortex-M33, up to 333 MHz frequency 1x Cortex-M7, up to 800 MHz frequency
		Arm Mali-G310 Graphic Processing Unit Supports 3D GPU supporting 64 GFLOPs FP32, OpenGL ES 3.2, OpenCL 3.0
	NPU	2.0 TOP/s Neural Network performance, up to 1.0 GHz (overdrive mode) and 800 MHz (nominal mode) 1 MByte of SRAM embedded within the NPU, but it is available for other SoC usage when not using for ML purposes.
Memory	RAM	4GB / 8GB /16GB LPDDR5
	Storage	32GB / 64GB / 128GB eMMC Optional SD 4-bit interface
Video	LVDS	2x 1080p60 LVDS Tx (2x 4-lane or 1x 8-lane)
	Mipi DSI	4-lane, 2.5 Gbps/lane 4kp30 or 3840 x 1440p60

Networking	2 x Gigabit Ethernet interface
	WiFi + BT LE module onboard
USB	3 USB 2.0 Host port
	2 USB 3.0 Host port
	1 USB 2.0 OTG port
PCI-e	2x PCI-e 3.0 x1lane ports
Audio	I2S Audio Interface
Serial Ports	Up to 4x UART (2 x Tx/Rx,2 xTX/RX/CTS/RTS)
	2x CAN Bus
Other interfaces	1x 4-lanes CSI camera interfaces
	4x I2C Bus
	1x SPI interfaces
	14 x GPIO
Power Supply	+5V DC
OS	Linux
Dimensions	50 x 82 mm

BLOCK DIAGROM



Product view



PRECAUTIONS FOR USE

- 1.Relative humidity: $\leq 90\%$, non-condensing .
- 2.Operation temperature: $-40\sim 85^{\circ}\text{C}$
- 3.Do not squeeze, distort or disassemble the PC.
- 4.Keep the Board away from static electricity.
- 5.Keep the Board away from water and other liquid.
- 6.Don't use long connect wires which may affect performance and image quality.