

RSB-3730

NXP i.MX8M Mini Cortex-A53 2.5英寸单板电脑



- NXP i.MX 8M Mini 四核 Cortex-A53 主频高达1.8GHZ
- 板载LPDDR4 2/4 GB
- 1 HDMI或1 双通道24位LVDS或1 MIPI DSI by bom option
- 5 USB2.0, 1 USB OTG, 2 RS232, 1 RS232 /485, 8 GPIO, 1 I2C
- 1 GbE, 1 Mini-PCIE , 1 M.2
- 支持Yocto
- 支持UIO40-Express做I/O扩展



产品介绍

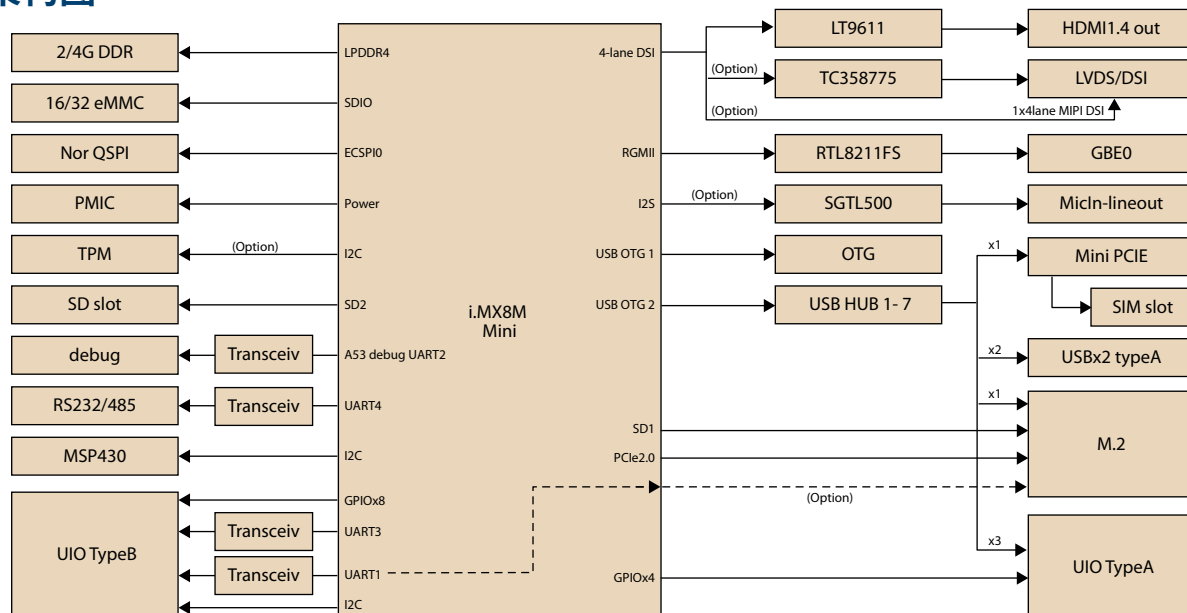
RSB-3730是搭载i.MX8M Mini Cortex-A53 Quad高性能处理器的 2.5“单板电脑。它提供HDMI/LVDS/DSI显示接口和1x GbE/3x 串行/5x USB/ 8 xGPIOs。RSB-3730还具有用于LTE的Mini-PCIE和用于WiFi/BT解决方案的M.2接口, 是医疗, 安全, 自动售货机应用物联网网关的理想解决方案。



规格

Form Factor	2.5" SBC with UIO40-Express for I/O Expansions
Processor System	CPU
	NXP i.MX8M Mini Cortex-A53 Quad core up to 1.8GHz
Memory	Technology
	LPDDR4 1333MHz
	Capacity
Flash	On-board 2/4 GB
	16GB/32GB/64GB of eMMC NAND Flash for OS and Advantech's boot loader
NPU	NPU
Graphics	HDMI
	1 HDMI 1.4 1920x1080@60Hz (By BOM option)
	LVDS
	1 Dual Channel 18/24 Bit LVDS 1920x1080@60Hz, Backlight power, 5/12V, Max. 1A (shared with HDMI, by bom option)
	MIPI DSI
Graphics Engine	1 MIPI-DSI 1920x1200@60Hz (shared with HDMI, by bom option)
	Vivante GC320, GC NanoUltra 3D GPU
	Support OpenGL ES 2.0, VG 1.1
H/W Video Codec	Decoder: 1080p60 H265, VP9;1080p60 H264, VP8
	Encoder: 1080p60 H.264, VP8
Ethernet	Chipset
	RTL8211FS
Speed	1 10/100/1000 Mbps
WatchDog Timer	WatchDog Timer
I/O	Yes
	USB
	2 x USB2.0 by typeA, 1 x USB OTG
	Audio
	1 Mic. in / Line out by pin header (option)
	CAN
Serial Port	1 x RS232 by pin header for debug
	1 x RS232/485 by DB9
Camera Input	-
UIO40-Express	3 USB2.0, upto 2 RS232, 1 I2C, 12 GPIOs
Indicator	LED
Expansion	1 Power LED
	Mini PCIe
	1 Full Size Mini PCIe Slot (with USB only)
	M.2
SD Socket	1 E-Key 2230, w/ SDIO&PCIE&USB& UART (option)
	1 Micro SD Socket
SIM Slot	1 Nano SIM Slot
Power	Power Supply Voltage
	+12 V
	Power Type
Lockable DC-Jack (2pin type connector by BOM option)	9.96W @burning
	Power Consumption
Environment	Operating Temperature
	0 ~ 60 °C / -40 ~ 85 °C
Operating Humidity	5%~95% Relative humidity, non-condensing
	Dimensions
Mechanical	100 x 72 x 19 mm
	Weight
0.34kg	Yocto
	Operation System
Certifications	CE/FCC Class B

架构图



订货信息

Part No.	CPU	Memory	Emmc	Display	UART1	Series port	USB Host	USB OTG	SD	Operating Temperature
RSB-3730CQ-XDA1E	iMX8M Mini Quad 1.8GHz	2	16	LVDS	to UIO	1 x RS232/485 by DB9 2 x RS232 by UIO	2 by TypeA 3 by UIO CONN	1	1	0 ~ 60 °C
RSB-3730WQ-XDA1E	iMX8M Mini Quad 1.8GHz	2	16	LVDS	to UIO	1 x RS232/485 by DB9 2 x RS232 by UIO	2 by TypeA 3 by UIO CONN	1	1	-40 ~ 85 °C
RSB-3730CQ-XHA1E	iMX8M Mini Quad 1.8GHz	4	32	HDMI	to M.2	1 x RS232/485 by DB9 1 x RS232 by UIO	2 by TypeA 3 by UIO CONN	1	1	0 ~ 60 °C
RSB-3730CQ-XNA1E	iMX8M Mini Quad 1.8GHz	2	16	DSI	to UIO	1 x RS232/485 by DB9 2 x RS232 by UIO	2 by TypeA 3 by UIO CONN	1	1	0 ~ 60 °C

装箱单

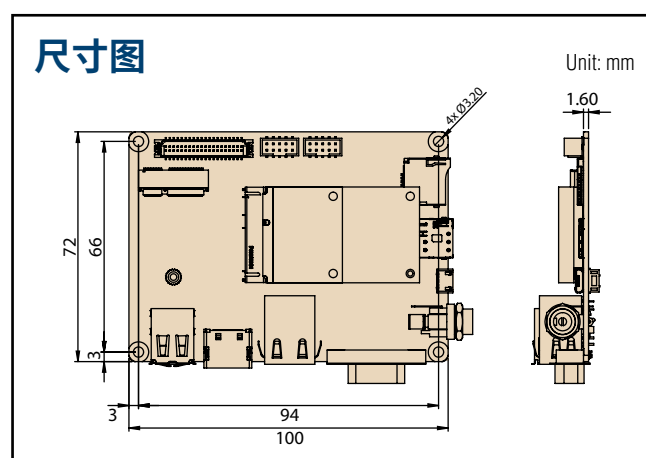
Part Number	Description
RSB-3730	RSB-3730 2.5" SBC with heatsink

可选配件

Part Number	Description
96PSA-A36W12R1-3	ADP A/D 100-240V 36W 12V C6 DC PLUG 90° 62368
1700032388-01	Line out cable
1700032387-01	Mic. in cable
1700026611-01	debug cable D-SUB 9P(M)/1x4P-1.25 20cm
1700028481-01	debug cable D-SUB 9P(M)/1x4P-1.25 7cm
170203183C	Power cord 3P EU 183cm
1700008921	Power Cord 3P PSE 183cm
170203180A	Power cord 3P UK 183cm
1700001524	Power Cord UL 3P 10A 125V 183cm
1700019146	Power Cord CCC 3P 10A 250V 183cm
EWM-W194M201E	802.11ac + BT 5.0 2T2R NXP88W8997 SDIO/UART
AIW-154BN	802.11ac+BT5.0 NXP 88W8997 PCIe+UART
968AD00479*	EC20CEFRG-MINIPICIE R2.1 LTE Cat 4

* Please contact us to get suitable cellular module for your region.

尺寸图



RSB-3730 前部I/O

