

RSB-3710

Rockchip RK3399 Cortex-A72 2.5" SBC with UIO40-Express

Preliminary



Features

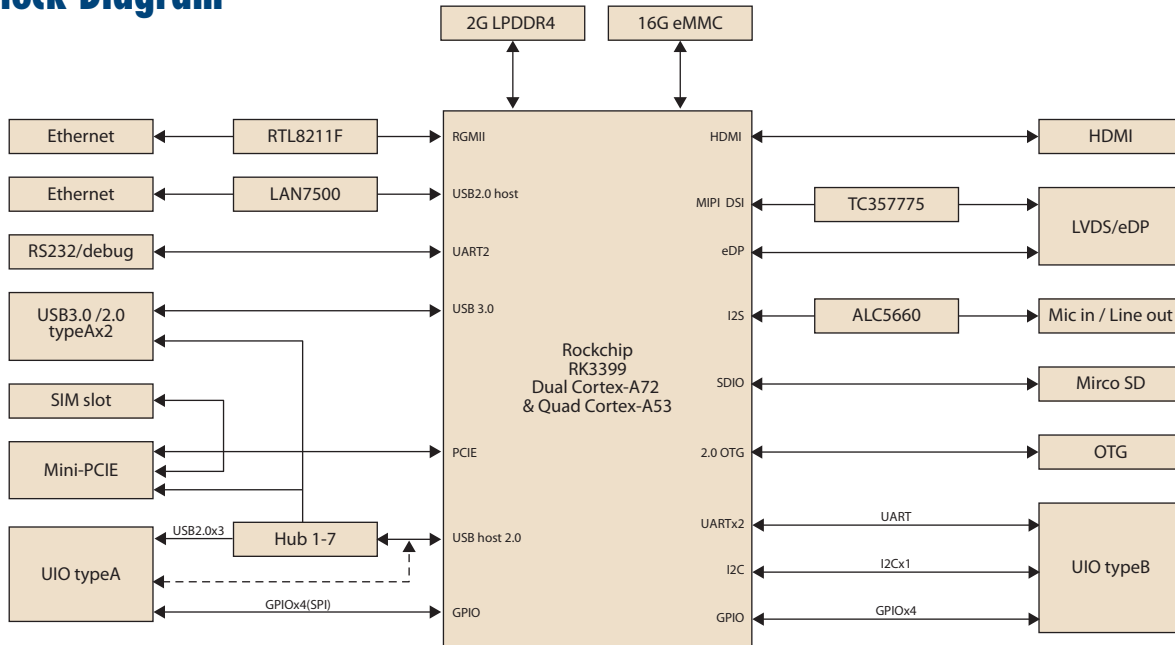
- Rockchip Arm® Cortex®-A72 RK3399 up to 1.8 GHz
- Onboard LPDDR4 2 GB
- HDMI 1920x1080 at 60Hz, 1 Dual Channel 24 bit LVDS
- 1 2-wire RS-232, 1 USB3.0, 1 USB2.0, 1 Micro SD, 1 Mic. in / Line out
- 1 mini-PCIe for 3G/4G
- UIO expansion 3 USB2.0, 8 GPIO, 2 2-wires UART, 1 I2C
- Supports Linux and Android



Specifications

Form Factor		2.5" SBC with UIO40-Express
Processor System	CPU	Rockchip RK3399 Cortex-A72 Quad Core (up to 1.8GHz)
Memory	Technology	LPDDR4 4000MT/s
	Capacity	On-board 2 GB
	Flash	16 GB eMMC Flash for O.S. and 8 MB QSPI NOR Flash for board information
Graphics	HDMI	1 HDMI 2.0, 1920 x 1080 at 60Hz
	LVDS	1 Dual Channel 18/24 Bit LVDS, Backlight power, 5/12V, Max. 1A
	eDP	1, max 2.7Gbps / Reused with LVDS
	Graphics Engine	OpenGL ES 1.1/2.0/3.1, OpenCL 1.1, DirectX 11
	H/W Video Codec	Decoder: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC, HEVC/H.265 decoder, 4k@60FPS Encoder: H.264 (BP@level4.0, MP, HP@level4.0), MVC and VP8
Ethernet	Chipset	RTL8211FSI
	Speed	2 10/100/1000 Mbps
WatchDog Timer	WatchDog Timer	1~6553s, power on/off 4s
I/O	USB	1 USB3.0+1 USB2.0, by TypeA
	Audio	1 Mic. in / Line out by pin header
	CAN-FD	-
	Serial Port	1 RS232 by pin header, reused as debug port by jumper
	Camera Input	-
Indicator	UIO40	4 USB2.0, 2 UART, 1 I2C, 8 GPIOs
	LED	1 Power LED
Expansion	Mini PCIe	1 Full Size Mini PCIe Slot (with PCIe/USB)
	M.2	-
	SD Socket	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)
	Power Consumption	TBD
Environment	Operating Temperature	0 ~ 60 °C / -20 ~ 85 °C
	Operating Humidity	5%~95% Relative humidity, non-condensing
Mechanical	Dimensions	100 x 72 x 19 mm
	Weight	TBD
Operation System		Android & Debian
Certifications		CE/FCC Class B

Block Diagram



Ordering Information

Part No.	CPU	Memory	Flash Memory	HDMI	LVDS	LAN	USB Host	SD	CANbus	Operating Temperature
RSB-3710	RK3399 Quad 1.8 GHz	2 GB	16 GB	1	1	2	2	1	-	0 ~ 60 °C

Packing List

Part Number	Description
96963710000	RSB-3710 2.5" SBC

Optional Accessories

Part Number	Description
96PSA-A36W12R1-3	ADP A/D 100-240V 36W 12V C6 DC PLUG 90° 62368
1700030307-01	UIO40 extending cable of RSB-3430, 3COM&8GPIO
1700031429-01	Line out cable
1700026878-01	Mic. in cable

External I/O



Dimensions

Unit: mm

