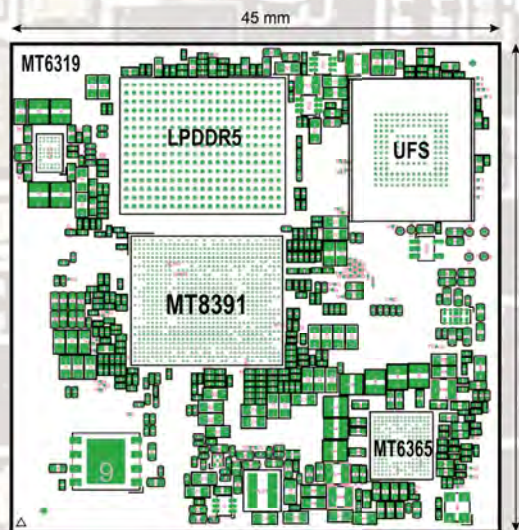


CORTADO bin 720/ 520 OSM-L Module

OSM-L Module



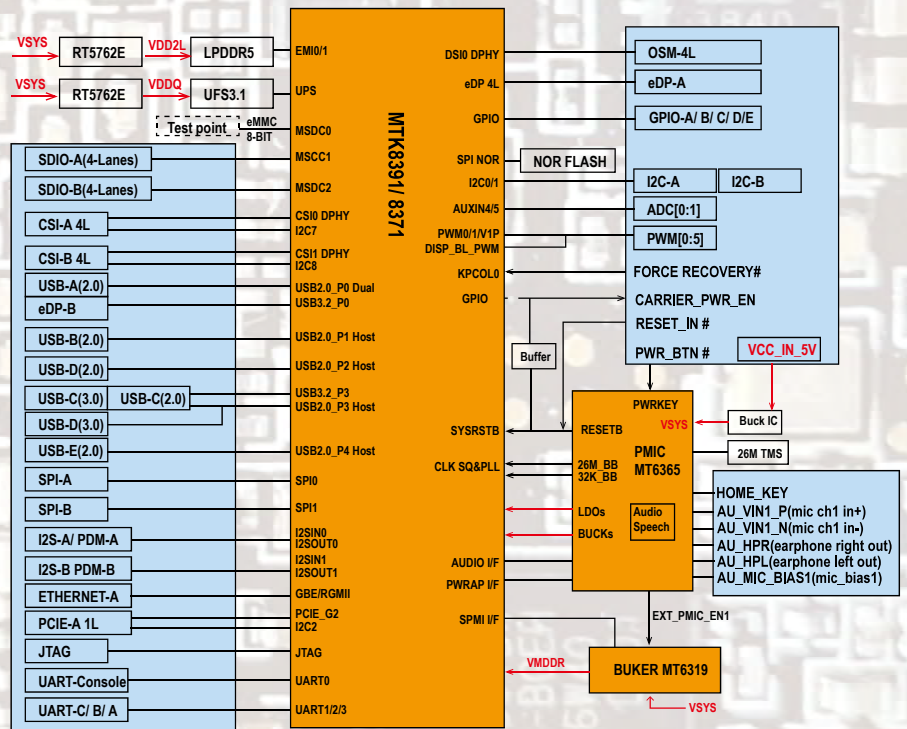
FEATURES

- Media MT8391 Octa-core
- 6x Arm Cortex-A55 up to 2GHz
- 2x Arm Cortex-A78 up to 2.6GHz
- On module LPDDR5- 16GB
- On module UFS3.1- 64GB
- AI- 8th generation NPU
- Gen AI capable best in class 10 TOPS performance (NPU+CPU+GPU)
- Graphics – ARM Mali-G57 MC2 up to 1.1GHz
Support for OpenGL, Open CL, Vulkan
- Disport Support – FHD+FHD, 4K60, 5K60
- Video Encoding – 4K30, HEVC/ H.264
- Video Decoding – 4K60, HEVC/ H.264
- 2x ISP, 32MP @30fps, 16MP + 16MP @30 fps
- Peripheral/ interfaces- as illustrated in block diagram
- OSM Size-L 45 mm x 45 mm / with 662 LGA contacts
- OSM revision 1.2 compliant
- Operating temperature option : -40°C to +105°C
- Android, Yocto Linux, Ubuntu OS options

INTERFACES

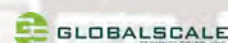
I/O interfaces	Description
MSDC0	eMMC 8-bit (only 12 test points)
MSDC1	SDIO-A 4-lane
MSDC2	SDIO-B 4-lane
CSI0 D-PHY	CSI-A 4-lane
CSI1 D-PHY	CSI-B 4-lane
DSI0 D-PHY	DSI 4-lane
GPIO	GPIO x 28
USB2.0_P0 Dual	USB-A (2.0-)
USB2.0_P1 Host	USB-B (2.0)
USB2.0_P2 Host	USB-D (2.0)
USB2.0_P3 Host	USB-C (2.0) combined with USB-C
USB2.0_P4 Host	USB-E (2.0)
USB3.2_P0	eDP-B (DP over type-C)
USB3.2_P3	USB-C (3.0)
SPI0	SPI-A
SPI1	SPI-B
SPINOR	NOR Flash
I2S1	I2S-A/ PDM-A
I2S2	I2S-B
GBE/ RGMII	Ethernet-A
PCFIE_G2	PCIE-A 1-lane
JTAG	JTAG
UART0	UART console
UART1/2/3	UART-A/ UART-B/ UART-C
UART0	UART console
I2C0/1	I2C-A/ I2C-B
AUXIN4/5	ADC[0:1]
PWM0/1	PWM[0:5]
MT6365_PMIC_AUDIO	• Mic ch1 input

BLOCK DIAGRAM



APPLICATIONS

- IoT gateway
- Edge computer
- AI Image/ Video processing
- Face ID/ Merchandise ID
- Advanced point-of-sale systems
- Digital advertising displays
- Customer service robots
- Home automation
- Intelligent security cameras
- Smart appliances
- Interactive digital signage
- Smart kiosks
- Cyber deck



CONTACT

