

MOSM-MR40E

OSM-L with Renesas RZ/V2H processor



Features

- RZ/V2H with 4x Cortex[®]-A55 (1.8 GHz) , 2x Cortex[®]-R8, and Cortex[®]M33
- AI Accelerator DRP-AI3 up to 80TOPS at Sparse
- High power efficiency: 10 TOPS/W
- LPDDR4X Memory Interface
- PCIe Interface (2x PCIe x1 Gen3)
- OSM Standard v1.2 Size-L with 662-pins

Specifications

General	OSM Standard v1.2	Support OSM Size-L SoC module
	CPU	4x Arm Cortex-A55 @ 1.8 GHz 2x Arm Cortex-R8 @ 800 MHz 1x Arm Cortex-M33 @ 200 MHz
	Storage	eMMC 64GB
	Memory	2x 8GB onboard LPDDR4X
	Power Input	5V DC
	Operating Systems	Linux (Yocto-based)
I/O Interface	Audio	2x I ² S
	PCIe	2x PCIe x1 Gen3
	USB	2x USB 2.0 (1 port with OTG) 2x USB 3.0
	Display	1 × MIPI-DSI (4-lane)
	Video	Integrated in SoC
	Camera	4 × MIPI CSI-2 (4-lane) : 2x on-board / 2x OSM
	Ethernet	2x GbE LAN (RGMII)
Other Legacy I/O	4x UART(1x console), 22x GPIO, 2x SDIO, 2x CAN, 1x PWM x3, 1x SPI, 2x ADC, 1x JTAG	
Mechanical	Form Factor	SGET OSM Specification v1.2 OSM Size-L 662 pins
	Dimension	45 mm(L) x 45 mm (W)
Environment	Operating Temperature	-20°C to 85°C
	Relative Humidity	5 % to 95 % RH (non-condensing)

Block Diagram

