

MOSM-MR30E-M

OSM-M with Renesas RZ/V2N processor



Features

- RZ/V2N with 4x Cortex®-A55 (1.8 GHz) and Cortex®-M33
- AI Accelerator DRP-AI3 up to 15TOPS at Sparse
- High power efficiency: 10 TOPS/W
- LPDDR4X Memory Interface
- PCIe Interface (PCIe x1 Gen3)
- OSM Standard v1.2 Size-M with 476-pins

Specifications

General	OSM Standard v1.2	Support OSM Size-M SoC module
	CPU	4x Arm Cortex-A55 @ 1.8 GHz 1x Arm Cortex-M33 @ 200 MHz
	Storage	eMMC 64GB
	Memory	8GB onboard LPDDR4X
	Power Input	5V DC
	Operating Systems	Linux (Yocto-based)
I/O Interface	Audio	2x I ² S
	PCIe	1x PCIe Gen3
	USB	1x USB OTG
		1x USB 2.0
		1x USB 3.0
	Display	1 × MIPI-DSI (4-lane)
	Video	Integrated in SoC
	Camera	2 × MIPI CSI-2 (4-lane)
Ethernet	2x GbE LAN (RGMII)	
Other Legacy I/O	5x UART(1x console), 16x GPIO, 2x SDIO, 2x CAN, 1x PWM x4, 1x SPI, 2x ADC, 1x JTAG	
Mechanical	Form Factor	SGET OSM Specification v1.2 OSM Size-M 476 pins
	Dimension	30 mm(L) x 45 mm (W)
Environment	Operating Temperature	-20°C to 85°C
	Relative Humidity	5 % to 95 % RH (non-condensing)

Block Diagram

