

SOM-V2H-OSM

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 (PCIe 2x1 Gen3)
- OSM Standard v1.2 Size-L with 662-pins

Specifications

| | | |
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| 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 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) |