

# D137SM SiMa Carrier Board (Stacking Design)



## Feature

- 1x Ethernet GH1.25/ 8 pin Wafer
- 1 x Micro HDMI output (HDMI 1.4, 1080P)
- 2 x 2 lanes MIPI CSI-2
- 22 pin FPC 0.5mm Pitch/GMSL Camera Inputs
- 1x M.2. key M 2230 for NVMe
- XT30 DC-IN 12V~50V
- Operating Temperature: -10°C~60°C(Board Level)
- Dimension: 90mm (L) x 56mm (W) x 30.7mm (H) (Stacking with SOM)

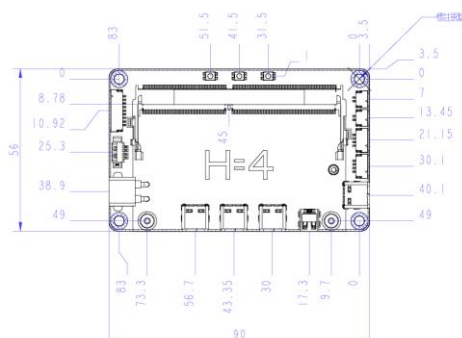
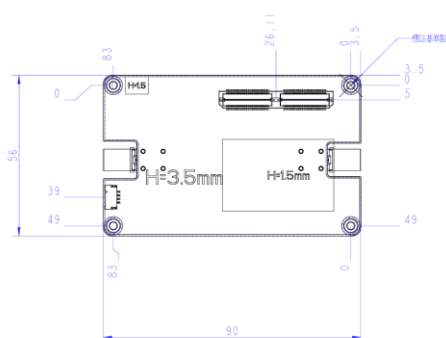
|                                 |                                                                                                                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                           | D137SM                                                                                                                                                                                                                                                                                                 |
| NVIDIA Module Compatibility     | SiMa.ai's Modalix MLSoC                                                                                                                                                                                                                                                                                |
| Networking                      | 1x Ethernet GH1.25/ 8 pin Wafer (10/100/1000/Gigabit Ethernet)                                                                                                                                                                                                                                         |
| Display Output                  | 1 x Micro HDMI output (HDMI 1.4, 1080P)                                                                                                                                                                                                                                                                |
| MIPI Camera Inputs              | 2 x 2 lanes MIPI CSI-2, 22 pin FPC 0.5mm Pitch/GMSL Camera Inputs                                                                                                                                                                                                                                      |
| USB                             | 1x USB 2.0 Type C (For BSP Installation)<br>3x USB 3.2 Type C                                                                                                                                                                                                                                          |
| Storage                         | 1x M.2. key M 2230 for NVMe                                                                                                                                                                                                                                                                            |
| Expansion Connector             | 4x UART GH1.25/4pin Wafer<br>1x Expansion Power Button GH1.25/2pin Wafer<br>1x Expansion Suspend/Wakeup GH1.25/2pin Wafer<br>1x Expansion Recovery GH1.25/2pin Wafer<br>2x SPI GH1.25/6 pin wafer<br>1x PWMs*4 GH1.25/6pin Wafer<br>2x I2C (Master) GH1.25/4pin Wafer<br>1x GPIOs*8 GH1.25/10pin Wafer |
| RTC Battery                     | Support RTC battery and Battery Life Monitoring by MCU                                                                                                                                                                                                                                                 |
| Internal Buttons                | Power and Recovery and Suspend/Wakeup                                                                                                                                                                                                                                                                  |
| Thermal solution                | 4 pin Fan Wafer solution                                                                                                                                                                                                                                                                               |
| Power Input                     | XT30 DC-IN 12V~50V                                                                                                                                                                                                                                                                                     |
| Temperature                     | Operating Temperature -25°C~60°C (Board Level)                                                                                                                                                                                                                                                         |
| Certifications                  | CE, FCC,VCCI, KC (TBA)                                                                                                                                                                                                                                                                                 |
| PCB/Electronics Mechanical Info | 90mm (L) x 56mm (W) x 30.7mm (H) (Stacking with SOM)                                                                                                                                                                                                                                                   |
| Weight                          | 80g                                                                                                                                                                                                                                                                                                    |

## Optional Accessories

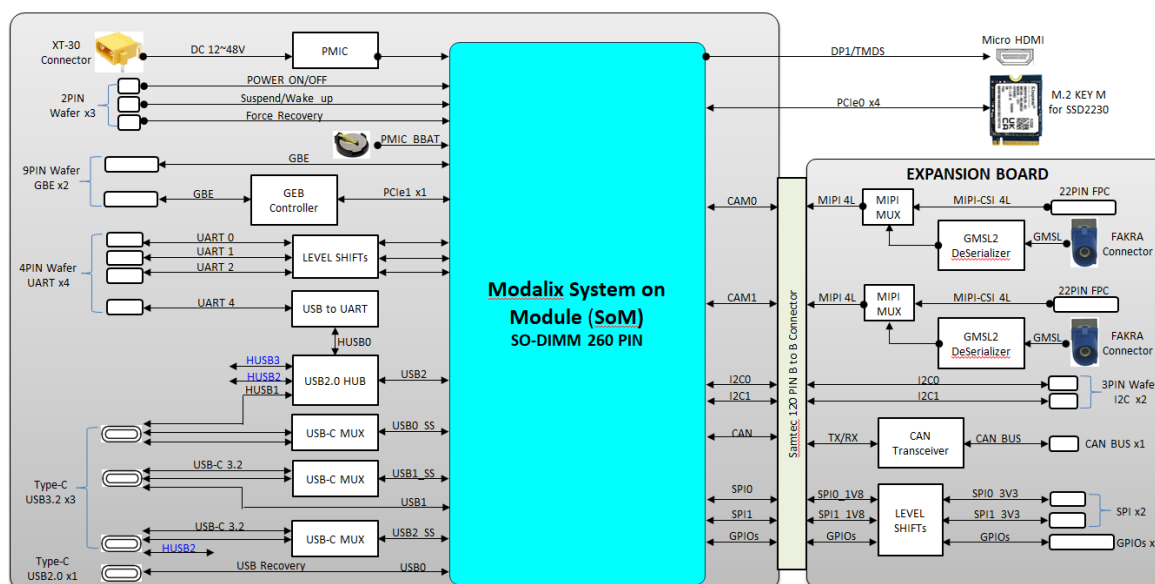
| Item               | Part Number                |
|--------------------|----------------------------|
| M.2 2230 SSD(256G) | 0700SSD00A2W               |
| 19V Adapter        | 041312GOYANW               |
| Power Supply (JP)  | 064APOWBRB3X, 064APOWBRB32 |
| Power Supply (AU)  | 064APOWBRBV-IPD            |
| Power Supply (TW)  | 064APOWBRBX-IPD            |
| Power Supply (UK)  | 064APOWBRBW-IPD            |
| Power Supply (EU)  | 064APOWBRB5-IPD            |
| Power Supply (US)  | 064APOWBRB2-IPD            |

All specifications are subject to change without prior notice.

## Dimensions



## Block Diagram



## Ordering information

| Model Name | Part Number | Description |
|------------|-------------|-------------|
|            |             |             |

