

深圳金亚太科技有限公司

Shenzhen Geniatech Co.,Ltd.

SPECIFICATION

MODEL:SOM-3568J-OSM



Confirmation

| REVISION HISTORY | | | | | |
|------------------|-----------|----------|------|--------------|--------|
| VERSION | DATE | BOARD ID | PAGE | DESCRIPTION | AUTHOR |
| V1.0 | 2022/10/8 | | 17 | Initial Spec | |
| | | | | | |

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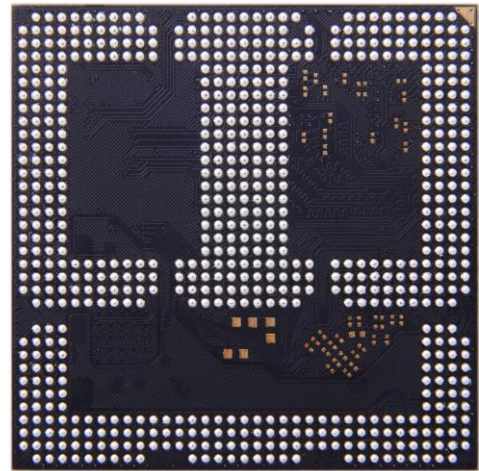
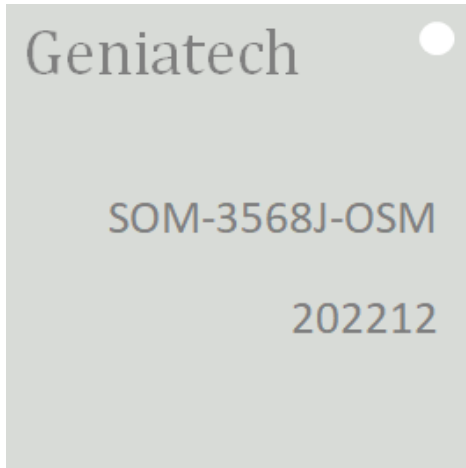
1. GENERAL DESCRIPTION

SOM-3568J-OSM is a new core board model based on RK3568J developed by Rockchip. RK3568J is a high-performance and low power quad-core application processor designed for personal mobile internet device and AIoT equipment, with powerful hard decoding capability and rich interfaces, can quickly realize project research and production only by expanding the functional baseplate, which can be applied to AIOT Internet of Things equipment, vehicle-mounted central control, entertainment/game equipment, commercial display equipment and other application fields. Below is the detailed specification:

- (I) the size is only 45mm x 45mm, which can save more precious space
- (II) Rockchip RK3568J with Quad-core Cortex-A55 and Mali-G52-2EE GPU
- (III) Support up to 8GB RAM, 128GB eMMC flash
- (IV) Supports MIPI-DSI/eDP interface, and multi-format 4K 60fps video decoding (H.265, H.264, VC-1, MPEG-1/2/4, VP8), 1080P (H.264, VP8 format) video encoding.
- (VI) With rich interfaces such as I2C, UART, SPI, SDIO3.0, USB2.0, PWM, RMII, I2S(supports 8-way digital microphone array input), and others
- (VII) Supports Android, Linux multiple operating system, the performance is stable and reliable
- (VIII) stable operation at extended commercial (-40 °C ~ 85°C) working temperature for 7X24 hours

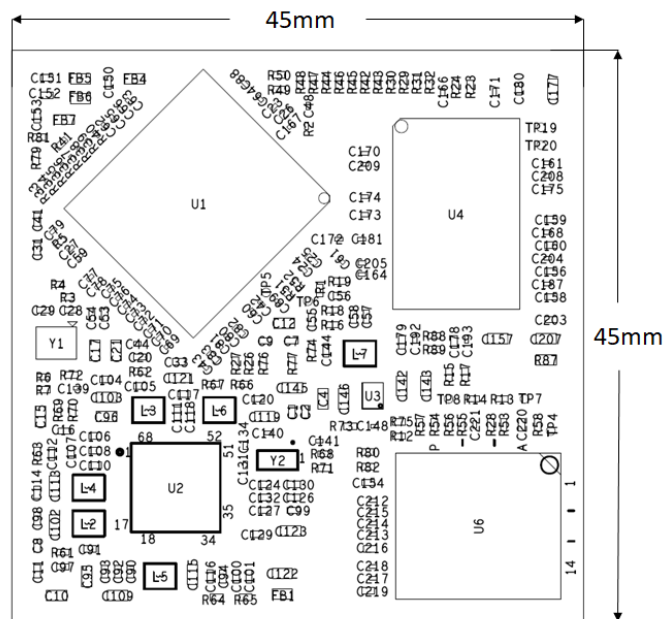
2. PRODUCT PICTURES

Below pictures are for reference only:

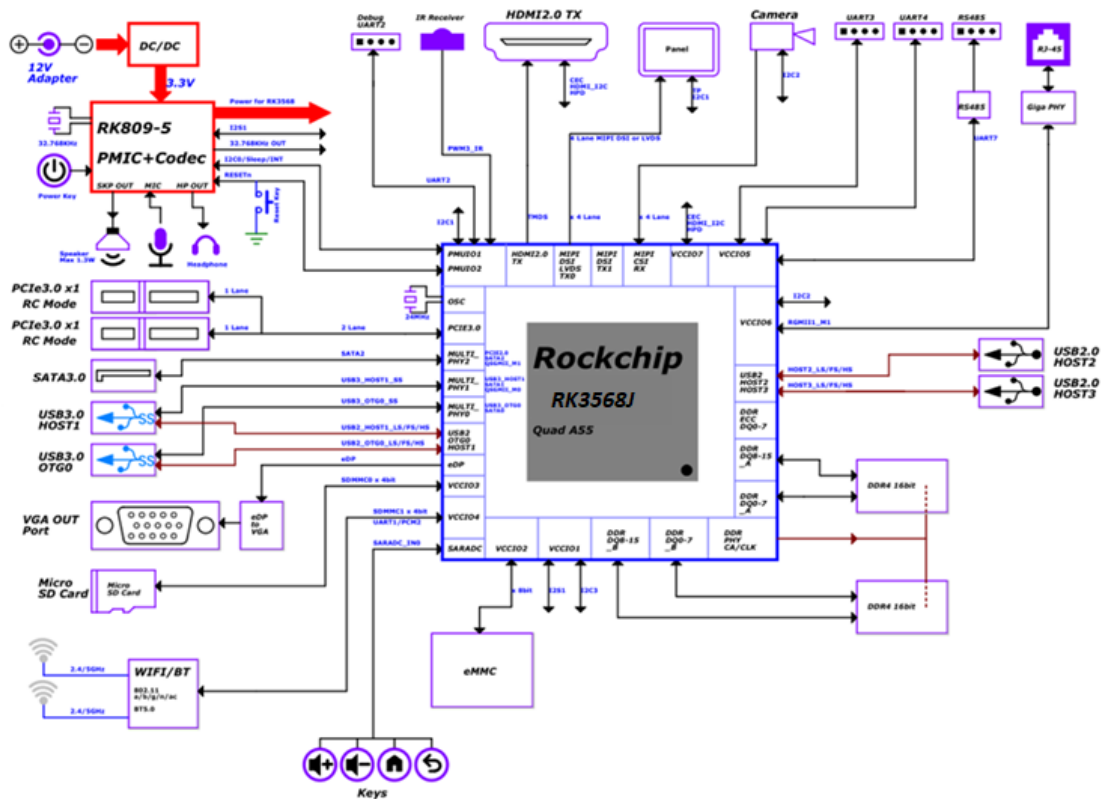


3. BOARD VIEW

3.1 DIMENSION



3.2 BLOCK DIAGROM



4. FEATURES

| | | |
|--------------|-------------------------------------|---------------------------------|
| Chipset | Rockchip RK3568/RK3568J | |
| Market area | Global | |
| OSD Language | English/Chinese(multi language OSD) | |
| Processor | CPU | Quad-core Cortex-A55 |
| | GPU | Mali-G52-2EE GPU |
| | RAM | 2GB (4GB/8GB Optional) |
| | ROM | 16GB (8G/32G/64G/128G Optional) |
| Network | Ethernet | 2 x RJ45, 1000M |

| | | |
|------------|--|-------------------------------------|
| | WiFi | Extend WiFi & Bluetooth via SDIO3.0 |
| Display | Support eDP/MIPI-DSI interface, Resolution up to 2560x1600@60Hz | |
| USB | 1 x USB Host 3.0 , 1 x USB OTG 3.0, 2 x USB Host 2.0 | |
| Audio | for audio output 2 x 8ch I ² S /TDM, 1x8ch PDM, 2x2ch I ² S/PCM,1x8ch SPDIF | |
| Interface | I2C, UART, SPI, SDIO3.0, USB3.0,USB2.0, PWM,CAN, RMII, I2S (Support 8-way digital microphone array input) | |
| Dimensions | 45 mm *45 mm | |
| Adapter | DC input voltage 5V | |

5. Support Formats

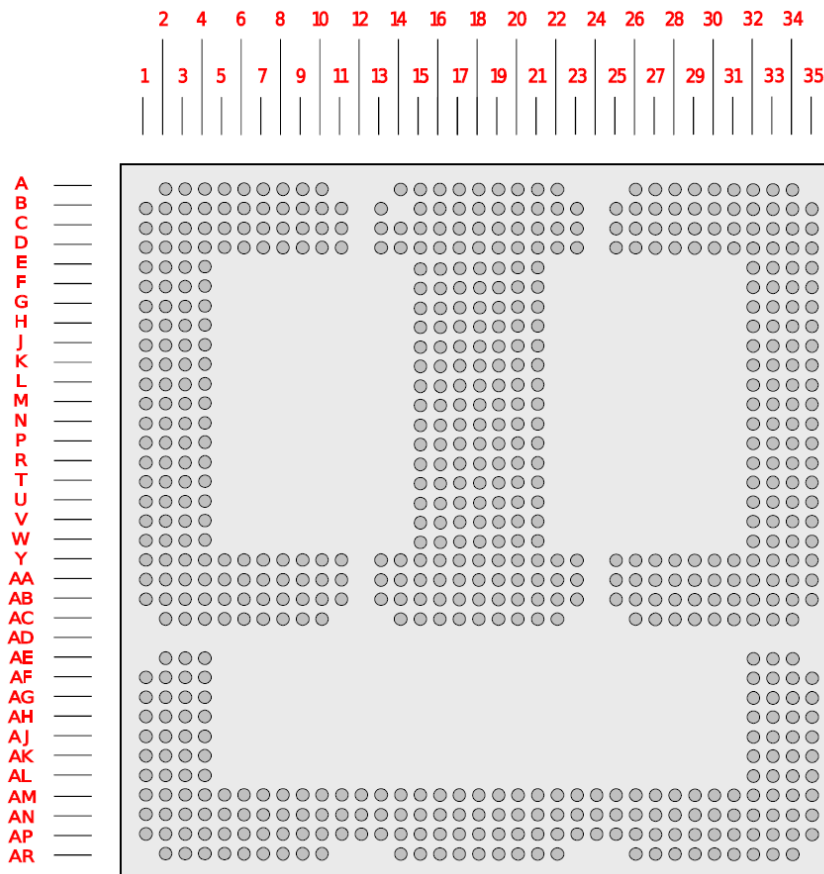
Video Decoder

- H.265 HEVC/MVC Main10 Profile yuv420@L5.1 up to 4096x2304@60fps
- H.264 AVC/MVC Main10 Profile yuv400/yuv420/yuv422/@L5.1 up to 4096x2304@60fps
- VP9 Profile0/2 yuv420@L5.1 up to 4096x2304@60fps
- VP8 version2, up to 1920x1088@60fps
- VC1 Simple Profile@low, medium, high levels, Main Profile@low, medium, high levels, Advanced Profile@level0~3, up to 1920x1088@60fps
- MPEG-4 Simple Profile@L0~6, Advanced Simple Profile@L0~5, up to 1920x1088@60fps
- MPEG-2 Main Profile, low, medium and high levels, up to 1920x1088@60fps
- MPEG-1 Main Profile, low, medium and high levels, up to 1920x1088@60fps
- H.263 Profile0, levels 10-70, up to 720x576@60fps

Video Encoder

- H.264/AVC BP/MP/HP@level4.2, up to 1920x1080@60fps
- H.265/HEVC MP@level4.1, up to 1920x1080@100fps (4096x4096@10fps with TILE)
- Support YUV/RGB video source with rotation and mirror

6. Module Pin Definition



| PIN | Default function | PIN | Default function |
|-----|------------------|-----|------------------|
| A2 | MIPI_CSI_RX_D1N | A3 | MIPI_CSI_RX_D1P |
| A4 | GND | A5 | MIPI_CSI_RX_D2N |
| A6 | MIPI_CSI_RX_D2P | A7 | GND |
| A8 | USB3_OTGO_SSTXP | A9 | USB3_OTGO_SSTXN |
| A10 | GND | A14 | UART8_RX_M0 |
| A15 | NC | A16 | NC |
| A17 | NC | A18 | NC |
| A19 | NC | A20 | NC |
| A21 | NC | A22 | NC |
| A26 | GND | A27 | USB3_HOST1_SSTXP |
| A28 | USB3_HOST1_SSTXN | A29 | GND |
| A30 | EDP_TX_D0P | A31 | EDP_TX_D0N |
| A32 | GND | A33 | EDP_TX_D2P |
| A34 | EDP_TX_D2N | B1 | MIPI_CSI_RX_D0P |

| | | | |
|-----|---------------------|-----|----------------------------|
| B2 | GND | B3 | MIPI_CSI_RX_CLKON |
| B4 | MIPI_CSI_RX_CLKOP | B5 | GND |
| B6 | MIPI_CSI_RX_D3N | B7 | MIPI_CSI_RX_D3P |
| B8 | GND | B9 | GND |
| B10 | USB3_OTGO_SSRXP | B11 | USB3_OTGO_SSRXN |
| B13 | UART8_TX_M0 | B15 | NC |
| B16 | NC | B17 | NC |
| B18 | NC | B19 | NC |
| B20 | NC | B21 | NC |
| B22 | ETH1_REFCLKO_25M_M1 | B23 | NC |
| B25 | USB3_HOST1_SSRXP | B26 | USB3_HOST1_SSRXN |
| B27 | GND | B28 | GND |
| B29 | VDDA0V9_PMU | B30 | GND |
| B31 | EDP_TX_D1P | B32 | EDP_TX_D1N |
| B33 | GND | B34 | EDP_TX_D3P |
| B35 | EDP_TX_D3N | C1 | MIPI_CSI_RX_D0N |
| C2 | CIF_CLKOUT | C3 | I2C2_SDA_M1 |
| C4 | I2C2_SDA_M1 | C5 | VCC_DDR |
| C6 | GMAC1_MDC_M1 | C7 | GMAC1_MDIO_M1 |
| C8 | NC | C9 | NC |
| C10 | USB_HOST_PWREN_H | C11 | GND |
| C13 | UART8_RTSn_M0 | C14 | UART8_CTSn_M0 |
| C15 | NC | C16 | NC |
| C17 | GND | C18 | NC |
| C19 | GND | C20 | VCCIO_SD |
| C21 | GND | C22 | NC |
| C23 | NC | C25 | GND |
| C26 | USB_HOST_PWREN3_H | C27 | NC |
| C28 | NC | C29 | NC |
| C30 | NC | C31 | eDP_BL_PWM_GPIO_C4 |
| C32 | GND | C33 | EDP_TX_AUXP |
| C34 | EDP_TX_AUXN | C35 | GND |
| D1 | GND | D2 | NC |
| D3 | HP_DET_L_GPIO3_C2 | D4 | PCIE30X1_WAKEn_M1_GPIO2_D3 |
| D5 | GND | D6 | NC |
| D7 | NC | D8 | GND |
| D9 | NC | D10 | USB2_HOST2_DP |

| | | | |
|-----|----------------------------|-----|------------------------------|
| D11 | USB2_HOST2_DM | D13 | UART4_TX_M0 |
| D14 | UART4_RX_M0 | D15 | UART4_RTSn_M0 |
| D16 | UART4_CTSn_M0 | D17 | WIFI_PWREN_GPIO0_D5 |
| D18 | GND | D19 | DVP_PWREN0_H_GPIO0_B0 |
| D20 | NC | D21 | SDMMC0_PWREN |
| D22 | UART2_RX_M0_DEBUG | D23 | UART2_TX_M0_DEBUG |
| D25 | USB2_HOST3_DP | D26 | USB2_HOST3_DM |
| D27 | NC | D28 | GND |
| D29 | NC | D30 | NC |
| D31 | eDP_BL_EN | D32 | NC |
| D33 | NC | D34 | GND |
| D35 | NC | E1 | NC |
| E2 | GND | E3 | PCIE30X1_CLKREQn_M1_GPIO2_D2 |
| E4 | PCIE30X2_WAKEn_M1_GPIO2_D5 | E15 | GND |
| E16 | NC | E17 | WIFI_REG_ON_H_GPIO3_D5 |
| E18 | LCD1_BL_PWM5 | E19 | GMAC0_RSTn_GPIO3_B7 |
| E20 | SDMMC0_CMD | E21 | GND |
| E32 | NC | E33 | NC |
| E34 | NC | E35 | NC |
| F1 | GMAC1_TXD1_M1 | F2 | GMAC1_TXD3_M1 |
| F3 | LCD1_PWREN_H_GPIO0_C3 | F4 | LCD1_BLEN_H_GPIO0_C2 |
| F15 | NC | F16 | GND |
| F17 | WIFI_WAKE_HOST_H_GPIO3_D4 | F18 | PWM3_IR |
| F19 | GMAC0_INT/PMEB_GPIO3_C0 | F20 | GND |
| F21 | SDMMC0_CLK | F32 | NC |
| F33 | GND | F34 | NC |
| F35 | GND | G1 | GMAC1_TXD0_M1 |
| G2 | GMAC1_TXD2_M1 | G3 | MIPI_CAM0_PDN_L_GPIO3_C4 |
| G4 | MIPI_CAM0_RST_L_GPIO3_C5 | G15 | GMAC0_TXD1 |
| G16 | GMAC0_TXD1 | G17 | BT_REG_ON_H_GPIO2_D7 |
| G18 | PWM8_M0 | G19 | GMAC1_RSTn_GPIO3_B0 |
| G20 | SDMMC0_D0 | G21 | SDMMC0_D1 |
| G32 | NC | G33 | NC |
| G34 | GND | G35 | NC |
| H1 | GMAC1_TXCLK_M1 | H2 | GND |
| H3 | NC | H4 | GND |
| H15 | GMAC0_TXD0 | H16 | GMAC0_TXD2 |

| | | | |
|-----|-------------------------|-----|------------------------|
| H17 | HOST_WAKE_BT_H_GPIO3_A1 | H18 | PWM9_M0 |
| H19 | GMAC1_INT/PMEB_GPIO3_A7 | H20 | SDMMC0_D2 |
| H21 | SDMMC0_D3 | H32 | GND |
| H33 | NC | H34 | NC |
| H35 | NC | J1 | NC |
| J2 | GMAC1_TXEN_M1 | J3 | NC |
| J4 | NC | J15 | GMAC0_TXCLK |
| J16 | GND | J17 | WAKE_HOST_H_GPIO3_A0 |
| J18 | NC | J19 | TP_RST_L_GPIO0_B6 |
| J20 | GND | J21 | SDMMC0_DET_L |
| J32 | NC | J33 | GND |
| J34 | NC | J35 | GND |
| K1 | GMAC1_RXD1_M1 | K2 | GMAC1_RXER_M1/GPIO4_B2 |
| K3 | NC | K4 | NC |
| K15 | GMAC0_RXD0 | K16 | GMAC0_TXEN |
| K17 | SPI3_CS0_M1_GPIO4_C4 | K18 | NC |
| K19 | TP_INT_L_GPIO0_B5 | K20 | SDMMC2_CLK_M0 |
| K21 | SDMMC2_CMD_M0 | K32 | NC |
| K33 | NC | K34 | GND |
| K35 | PCIE30_TX0P | L1 | GMAC1_RXDV_CRS_M1 |
| L2 | GND | L3 | NC |
| L4 | GND | L15 | GMAC0_RXD1 |
| L16 | NC | L17 | GPIO1_B3 |
| L18 | GND | L19 | SPK_CTL_H_GPIO3_C3 |
| L20 | SDMMC2_D0_M0 | L21 | SDMMC2_D1_M0 |
| L32 | NC | L33 | PCIE30X1_PERSTn_M2 |
| L34 | PCIE30_RX0P | L35 | PCIE30_TX0N |
| M1 | GMAC1_RXD2_M1 | M2 | NC |
| M3 | NC | M4 | NC |
| M15 | GMAC0_RXDV_CRS | M16 | GND |
| M17 | VCCIO4 | M18 | SARADC_VIN2 |
| M19 | VDD_CPU | M20 | GND |
| M21 | SDMMC2_D2_M0 | M32 | NC |
| M33 | NC | M34 | PCIE30_RX0N |
| M35 | GND | N1 | GMAC1_RXD3_M1 |
| N2 | NC | N3 | NC |
| N4 | NC | N15 | GMAC0_RXD2 |

| | | | |
|-----|------------------------------|-----|--------------------------|
| N16 | NC | N17 | ARMJTAG_TCK |
| N18 | SARADC_VIN3 | N19 | ARMJTAG_TMS |
| N20 | SDMMC2_D3_M0 | N21 | NC |
| N32 | NC | N33 | NC |
| N34 | GND | N35 | NC |
| P1 | GMAC1_RXCLK_M1 | P2 | GND |
| P3 | NC | P4 | GND |
| P15 | GMAC0_RXD3 | P16 | NC |
| P17 | NC | P18 | GND |
| P19 | NC | P20 | NC |
| P21 | NC | P32 | NC |
| P33 | NC | P34 | NC |
| P35 | NC | R1 | GND |
| R2 | NC | R3 | NC |
| R4 | NC | R15 | GMAC0_RXCLK |
| R16 | GND | R17 | NC |
| R18 | NC | R19 | NC |
| R20 | GND | R21 | NC |
| R32 | NC | R33 | NC |
| R34 | NC | R35 | NC |
| T1 | NC | T2 | PCIE20_WAKEn_M1 |
| T3 | NC | T4 | NC |
| T15 | GMAC0_MDIO | T16 | GMAC0_MDC |
| T17 | RECOVERY | T18 | Working_LEDEN_H_GPIO0_B7 |
| T19 | RK809_32KOUT_WIFI | T20 | VCCIO6 |
| T21 | NC | T32 | NC |
| T33 | NC | T34 | GND |
| T35 | NC | U1 | NC |
| U2 | GND | U3 | NC |
| U4 | GND | U15 | FSPI_D0 |
| U16 | FSPI_CLK | U17 | RESETn |
| U18 | VCC_1V8 | U19 | NC |
| U20 | NC | U21 | NC |
| U32 | PCIE30X2_CLKREQn_M1_GPIO2_D4 | U33 | GPIO1_B0 |
| U34 | NC | U35 | NC |
| V1 | GND | V2 | PCIE20_PERSTn_M1 |
| V3 | NC | V4 | NC |

| | | | |
|------|--------------------|------|-----------------|
| V15 | FSPI_D1 | V16 | GND |
| V17 | PMIC_EXT_EN | V18 | I2S3_MCLK_M0 |
| V19 | NC | V20 | GND |
| V21 | I2S3_SDI_M0 | V32 | GPIO1_B1 |
| V33 | GPIO1_B2 | V34 | NC |
| V35 | NC | W1 | PCIE20_REFCLKP |
| W2 | PCIE20_CLKREQn_M1 | W3 | GND |
| W4 | NC | W15 | FSPI_D3 |
| W16 | FSPI_D2 | W17 | NC |
| W18 | I2S3_LRCK_M0 | W19 | NC |
| W20 | I2S3_SCLK_M0 | W21 | I2S3_SDO_M0 |
| W32 | NC | W33 | NC |
| W34 | GND | W35 | NC |
| Y1 | PCIE20_REFCLKN | Y2 | GND |
| Y3 | VCC_3V3 | Y4 | NC |
| Y5 | NC | Y6 | NC |
| Y7 | NC | Y8 | VCC5V0_SYS |
| Y9 | VCC5V0_SYS | Y10 | VCC5V0_SYS |
| Y11 | VCC5V0_SYS | Y13 | GMAC0_MCLKINOUT |
| Y14 | TH0_REFCLKO_25M | Y15 | FSPI_CS0n |
| Y16 | VCCA1V8 | Y17 | VCC5V0_SYS |
| Y18 | GND | Y19 | NC |
| Y20 | VDD_LOGIC | Y21 | SPI3_CLK_M1 |
| Y22 | SPI3_MISO_M1 | Y23 | SPI3_MOSI_M1 |
| Y25 | VCC5V0_SYS | Y26 | VCC5V0_SYS |
| Y27 | VCC5V0_SYS | Y28 | VCC5V0_SYS |
| Y29 | NC | Y30 | NC |
| Y31 | NC | Y32 | NC |
| Y33 | NC | Y34 | NC |
| Y35 | NC | AA1 | GND |
| AA2 | NC | AA3 | NC |
| AA4 | GND | AA5 | NC |
| AA6 | NC | AA7 | GND |
| AA8 | GND | AA9 | PMIC_PWRON |
| AA10 | GND | AA11 | GND |
| AA13 | GMAC1_MCLKINOUT_M1 | AA14 | GND |
| AA15 | I2C3_SCL_M1 | AA16 | I2C3_SDA_M0 |

| | | | |
|------|-------------------|------|-------------------|
| AA17 | GND | AA18 | NC |
| AA19 | GND | AA20 | I2C5_SCL_M0 |
| AA21 | I2C5_SCL_M0 | AA22 | GND |
| AA23 | SPI3_CS0_M1 | AA25 | GND |
| AA26 | GND | AA27 | GND |
| AA28 | GND | AA29 | NC |
| AA30 | NC | AA31 | NC |
| AA32 | GND | AA33 | VDD_GPU |
| AA34 | NC | AA35 | NC |
| AB1 | PCIE20_RXP | AB2 | PCIE20_RXN |
| AB3 | GND | AB4 | MIPI_DSI_TX1_D3P |
| AB5 | MIPI_DSI_TX1_D3N | AB6 | GND |
| AB7 | MIPI_DSI_TX1_CLKP | AB8 | MIPI_DSI_TX1_CLKN |
| AB9 | GND | AB10 | MIPI_DSI_TX1_D0N |
| AB11 | MIPI_DSI_TX1_D0P | AB13 | USB3_OTG0_DM |
| AB14 | USB3_OTG0_ID | AB15 | GND |
| AB16 | USB3_OTG0_VBUSDET | AB17 | CAN0_RX_M0 |
| AB18 | NC | AB19 | CAN1_RX_M0 |
| AB20 | NC | AB21 | GND |
| AB22 | NC | AB23 | USB3_HOST1_DM |
| AB25 | NC | AB26 | NC |
| AB27 | NC | AB28 | GND |
| AB29 | NC | AB30 | NC |
| AB31 | GND | AB32 | NC |
| AB33 | NC | AB34 | GND |
| AB35 | NC | AC2 | PCIE20_TXP |
| AC3 | PCIE20_TXN | AC4 | GND |
| AC5 | MIPI_DSI_TX1_D2P | AC6 | MIPI_DSI_TX1_D2N |
| AC7 | GND | AC8 | MIPI_DSI_TX1_D1P |
| AC9 | MIPI_DSI_TX1_D1N | AC10 | GND |
| AC14 | USB3_OTG0_DP | AC15 | NC |
| AC16 | USB_OTG_PWREN_H | AC17 | CAN0_TX_M0 |
| AC18 | NC | AC19 | CAN1_TX_M0 |
| AC20 | USB_HOST_PWREN1_H | AC21 | NC |
| AC22 | USB3_HOST1_DP | AC26 | NC |
| AC27 | GND | AC28 | NC |
| AC29 | NC | AC30 | GND |

| | | | |
|------|------------------|------|------------------|
| AC31 | NC | AC32 | NC |
| AC33 | GND | AC34 | NC |
| AE2 | GND | AE3 | NC |
| AE4 | VCC5V0_SYS | AE32 | NC |
| AE33 | NC | AE34 | GND |
| AF1 | NC | AF2 | NC |
| AF3 | NC | AF4 | VCC5V0_SYS |
| AF32 | NC | AF33 | NC |
| AF34 | NC | AF35 | GND |
| AG1 | NC | AG2 | NC |
| AG3 | GND | AG4 | VCC5V0_SYS |
| AG32 | NC | AG33 | NC |
| AG34 | NC | AG35 | NC |
| AH1 | NC | AH2 | GND |
| AH3 | VCC5V0_SYS | AH4 | VCC5V0_SYS |
| AH32 | NC | AH33 | NC |
| AH34 | GND | AH35 | NC |
| AJ1 | NC | AJ2 | NC |
| AJ3 | VCC5V0_SYS | AJ4 | VCC5V0_SYS |
| AJ32 | NC | AJ33 | NC |
| AJ34 | NC | AJ35 | GND |
| AK1 | NC | AK2 | NC |
| AK3 | GND | AK4 | VCC5V0_SYS |
| AK32 | NC | AK33 | NC |
| AK34 | NC | AK35 | NC |
| AL1 | NC | AL2 | GND |
| AL3 | HDMI_TX2P_PORT | AL4 | HDMI_TX2N_PORT |
| AL32 | NC | AL33 | NC |
| AL34 | GND | AL35 | NC |
| AM1 | NC | AM2 | NC |
| AM3 | HDMI_TX1P_PORT | AM4 | HDMI_TX1N_PORT |
| AM5 | HDMI_TX0P_PORT | AM6 | HDMI_TX0N_PORT |
| AM7 | HDMI_TXCLKP_PORT | AM8 | HDMI_TXCLKN_PORT |
| AM9 | HDMI_TX_HPDIIN | AM10 | HDMITX_CEC_M0 |
| AM11 | NC | AM12 | NC |
| AM13 | GND | AM14 | NC |
| AM15 | NC | AM16 | GND |

| | | | |
|------|---------------------------------|------|---------------------------------|
| AM17 | NC | AM18 | NC |
| AM19 | GND | AM20 | NC |
| AM21 | NC | AM22 | GND |
| AM23 | HDMITX_SDA | AM24 | HDMITX_SCL |
| AM25 | NC | AM26 | NC |
| AM27 | NC | AM28 | NC |
| AM29 | NC | AM30 | NC |
| AM31 | NC | AM32 | NC |
| AM33 | NC | AM34 | NC |
| AM35 | GND | | |
| AN1 | NC | AN2 | NC |
| AN3 | GND | AN4 | NC |
| AN5 | NC | AN6 | GND |
| AN7 | NC | AN8 | NC |
| AN9 | GND | AN10 | NC |
| AN11 | GND | AN12 | MIPI_DSI_TX0_CLKN/LVDS_TX0_CLKN |
| AN13 | MIPI_DSI_TX0_CLKP/LVDS_TX0_CLKP | AN14 | LCD0_PWREN_H_GPIO0_C7 |
| AN15 | GND | AN16 | NC |
| AN17 | NC | AN18 | GND |
| AN19 | NC | AN20 | NC |
| AN21 | GND | AN22 | LCD0_BL_PWM4 |
| AN23 | LCD0_BLEN_H_GPIO0_D6 | AN24 | NC |
| AN25 | NC | AN26 | NC |
| AN27 | NC | AN28 | NC |
| AN29 | NC | AN30 | NC |
| AN31 | NC | AN32 | NC |
| AN33 | GND | AN34 | NC |
| AN35 | NC | | |
| AP1 | NC | AP2 | GND |
| AP3 | NC | AP4 | NC |
| AP5 | GND | AP6 | NC |
| AP7 | NC | AP8 | GND |
| AP9 | NC | AP10 | NC |
| AP11 | MIPI_DSI_TX0_D3N/LVDS_TX0_D3N | AP12 | MIPI_DSI_TX0_D3P/LVDS_TX0_D3P |
| AP13 | GND | AP14 | MIPI_DSI_TX0_D2N/LVDS_TX0_D2N |
| AP15 | MIPI_DSI_TX0_D2P/LVDS_TX0_D2P | AP16 | GND |
| AP17 | MIPI_DSI_TX0_D0N/LVDS_TX0_D0N | AP18 | MIPI_DSI_TX0_D0P/LVDS_TX0_D0P |

| | | | |
|------|------------------------------|------|-------------------------------|
| AP19 | GND | AP20 | NC |
| AP21 | NC | AP22 | GND |
| AP23 | NC | AP24 | NC |
| AP25 | GND | AP26 | NC |
| AP27 | NC | AP28 | GND |
| AP29 | NC | AP30 | NC |
| AP31 | GND | AP32 | NC |
| AP33 | NC | AP34 | GND |
| AP35 | NC | | |
| AR2 | NC | AR3 | NC |
| AR4 | NC | AR5 | NC |
| AR6 | NC | AR7 | NC |
| AR8 | NC | AR9 | NC |
| AR10 | NC | AR14 | GND |
| AR15 | MIPI_DSI_TX0_D1N/LVDS_TX0_D1 | AR16 | MIPI_DSI_TX0_D1P/LVDS_TX0_D1P |
| AR17 | GND | AR18 | NC |
| AR19 | NC | AR20 | GND |
| AR21 | NC | AR22 | NC |
| AR26 | GND | AR27 | NC |
| AR28 | NC | AR29 | GND |
| AR30 | NC | AR31 | NC |
| AR32 | GND | AR33 | NC |
| AR34 | NC | | |

7. Precautions for use

1. Relative humidity: 10% ~ 90% .
2. Storage temperature: -10 ~ 125 °C
3. Operation temperature: Extended commercial (-40 °C ~ 85°C)
4. Do not squeeze、 distort or disassemble the board.
5. Keep the board away from static electricity .
6. Keep the board away from water and other liquid.
7. Clean the board with soft and clean dry cloth when it's dirty.
8. Don't use long connect wires which may affect performance and image quality.