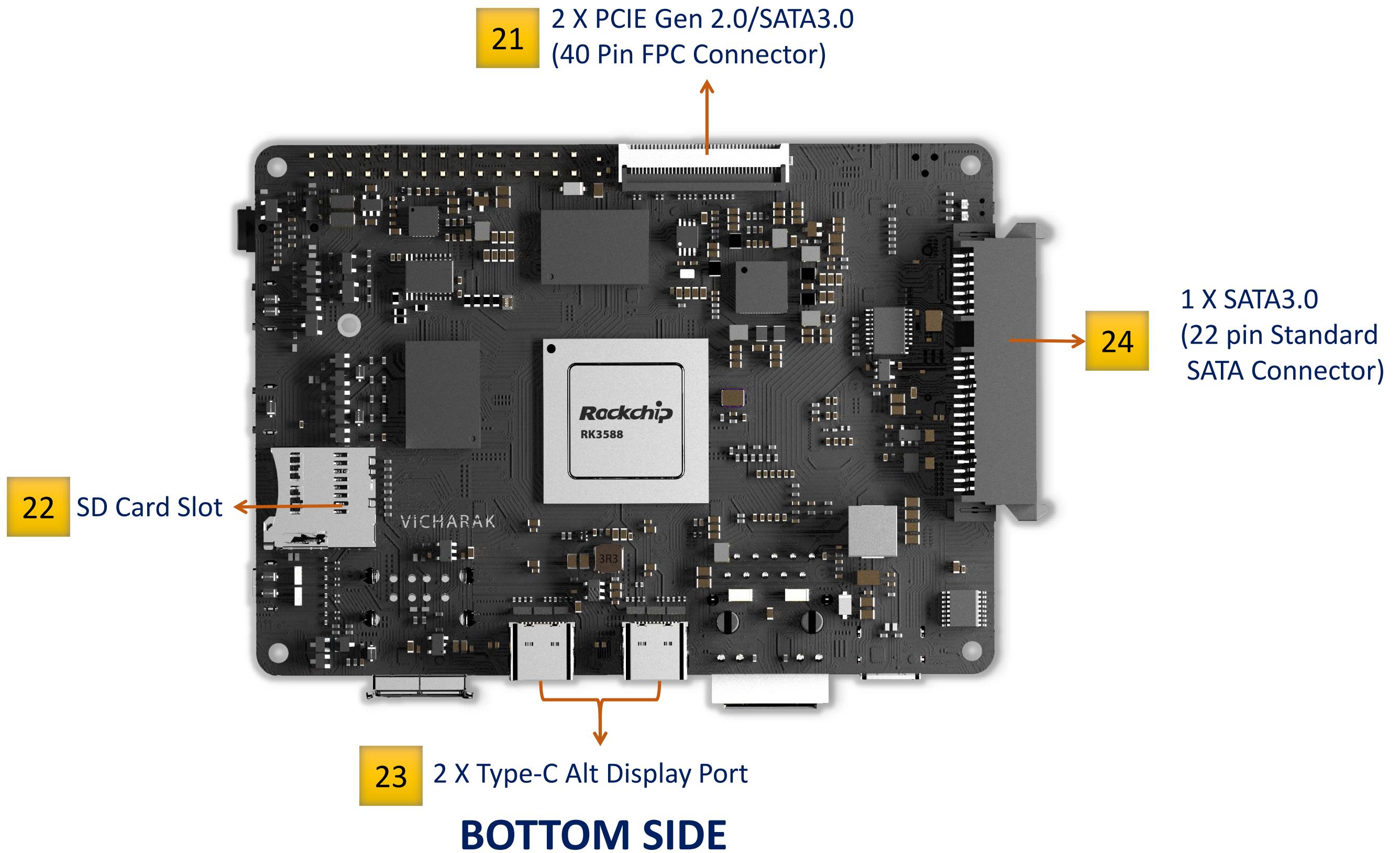
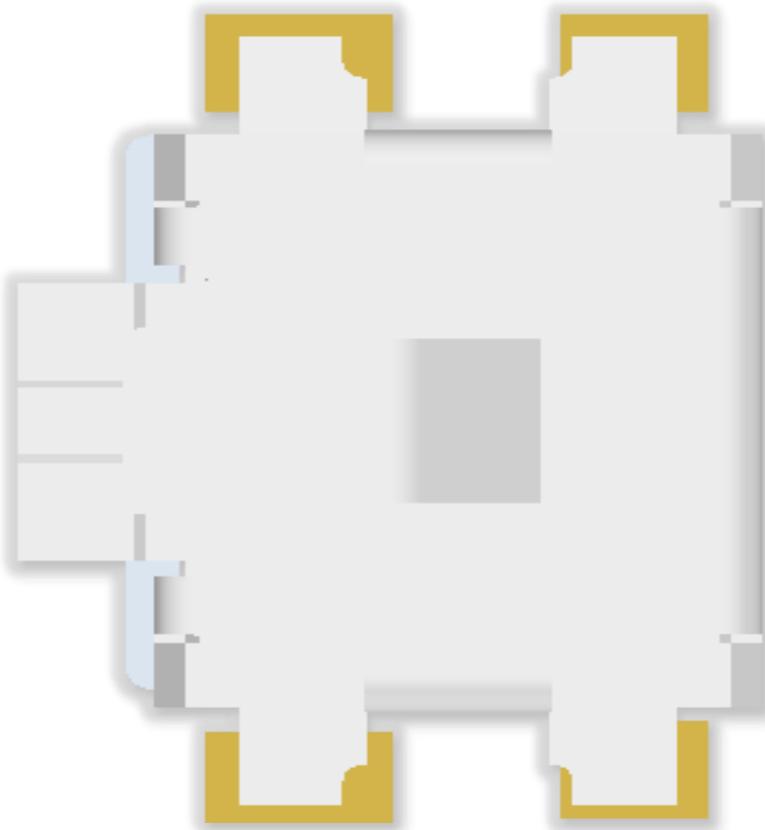


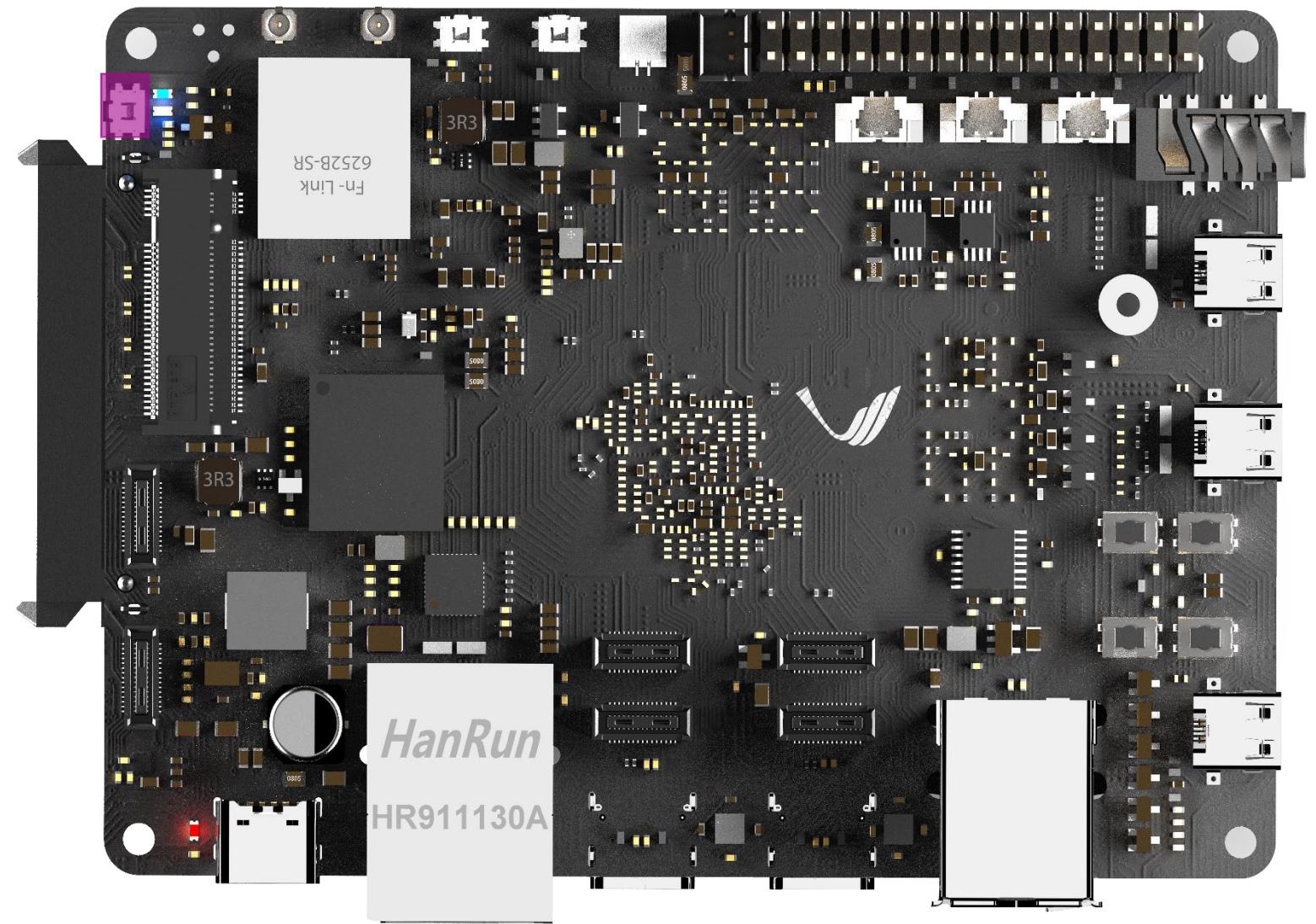
**TOP SIDE**



# 01 Maskrom key

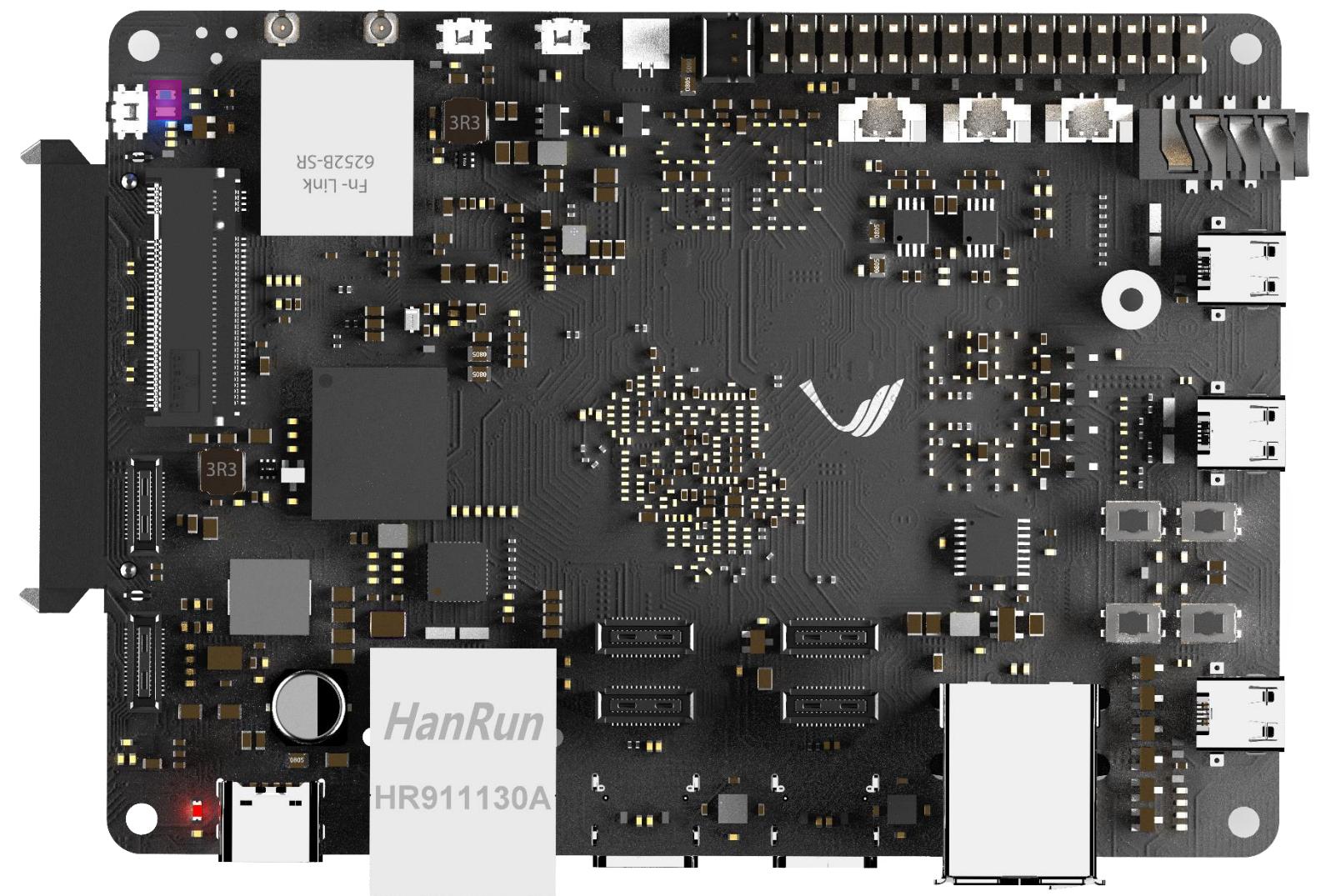


**Maskrom Key**





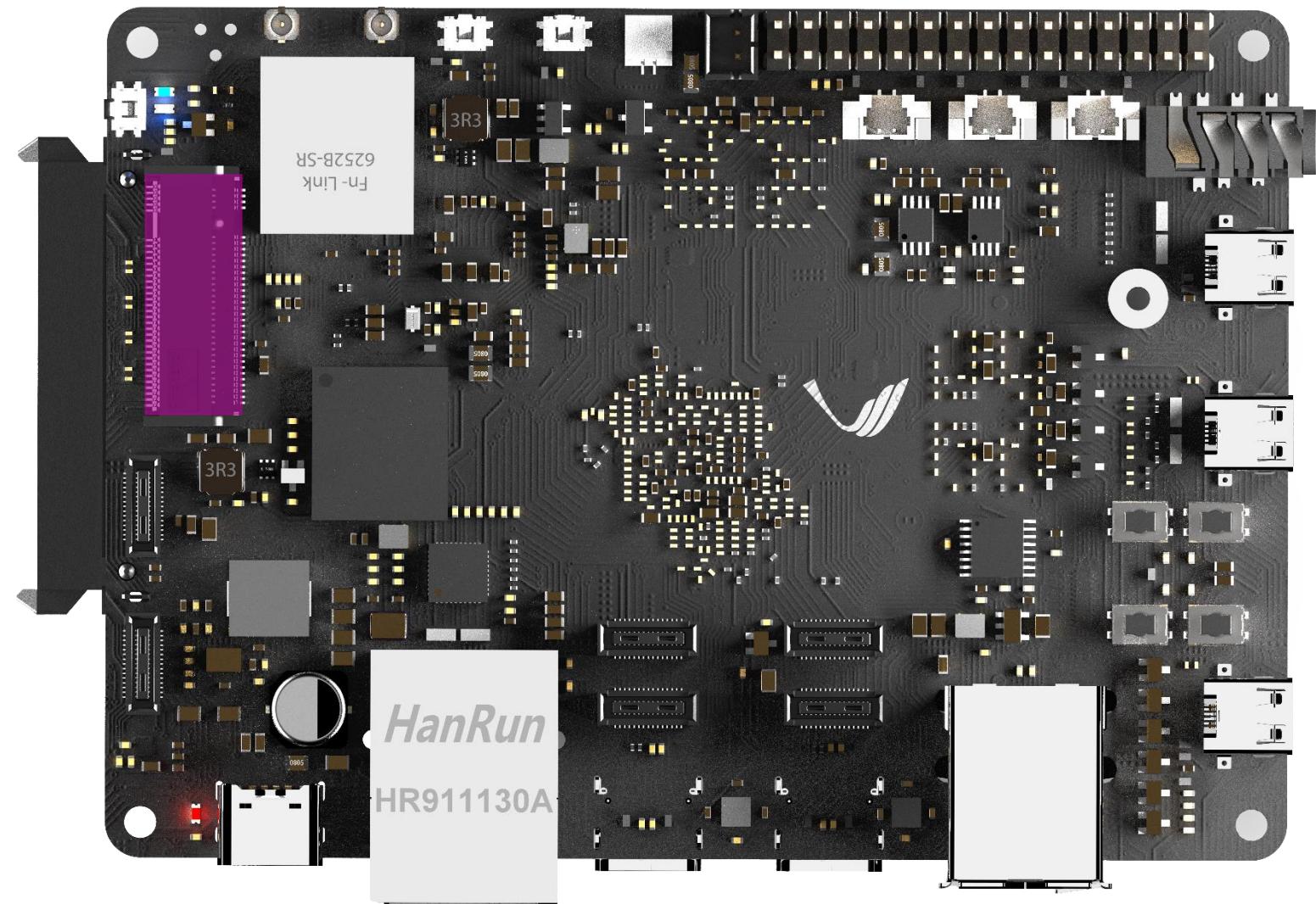
- 1. User LED**
- 2. Status LED**



### 03 NVME M.2 M-key Connector



**NVME M.2 M-Key  
PCIe Gen3**



## 04 MIPI CSI RX PORT0

GND	01	
MIPI_CSI0_RX_D0_P	03	
MIPI_CSI0_RX_D0_N	05	
GND	07	
MIPI_CSI0_RX_D1_N	09	
MIPI_CSI0_RX_D1_P	11	
GND	13	
MIPI_CSI0_RX_CLK1_N	15	
MIPI_CSI0_RX_CLK1_P	17	
GND	19	
I2C3_SDA_M0	21	
I2C3_SCL_M0	23	
MIPI_CAM3_PDN_L	25	
MIPI_CAM3_RESET_L	27	
MIPI_CAM3_CLKOUT	29	
		02 MIPI_CSI0_RX_CLK0_N
		04 MIPI_CSI0_RX_CLK0_P
	06	GND
	08	MIPI_CSI0_RX_D2_N
	10	MIPI_CSI0_RX_D2_P
	12	GND
	14	MIPI_CSI0_RX_D3_N
	16	MIPI_CSI0_RX_D3_P
	18	GND
	20	VCC_3V3_CSI
	22	VCC_3V3_CSI
	24	VCC_3V3_CSI
	26	VCC_3V3_CSI
	28	GND
	30	GND

On-Board Connector

30 Pin

0.4mm Pitch

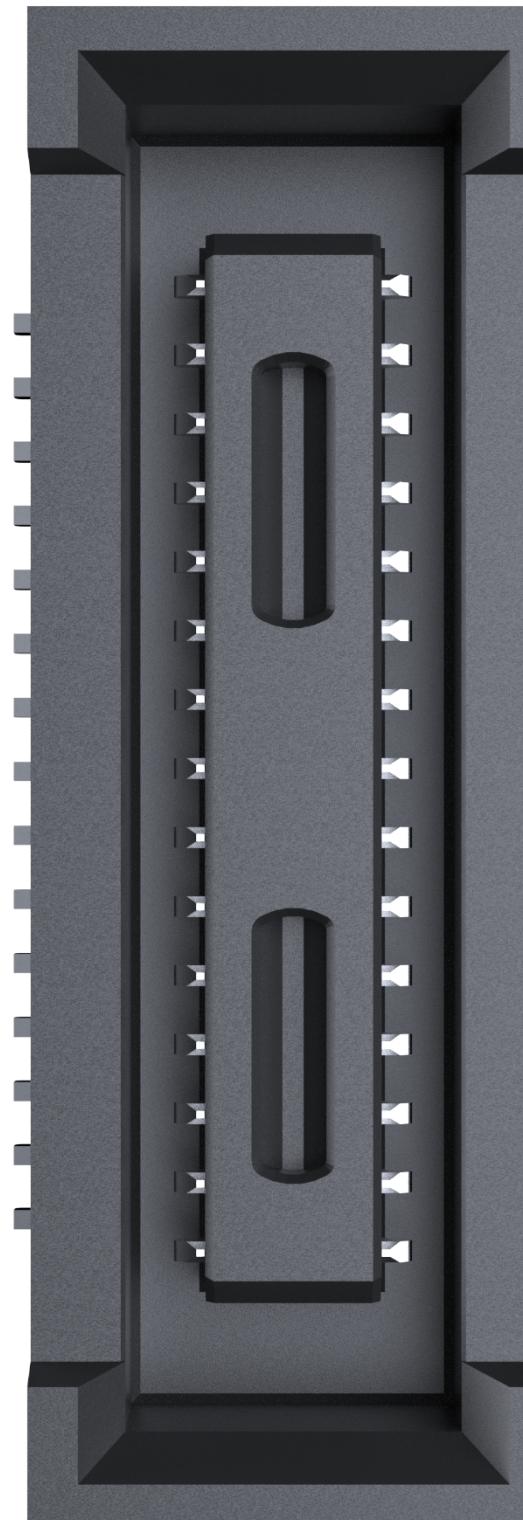
MPN : DF40HB(2.0)-30DS-0.4V(51)

Mating Connector

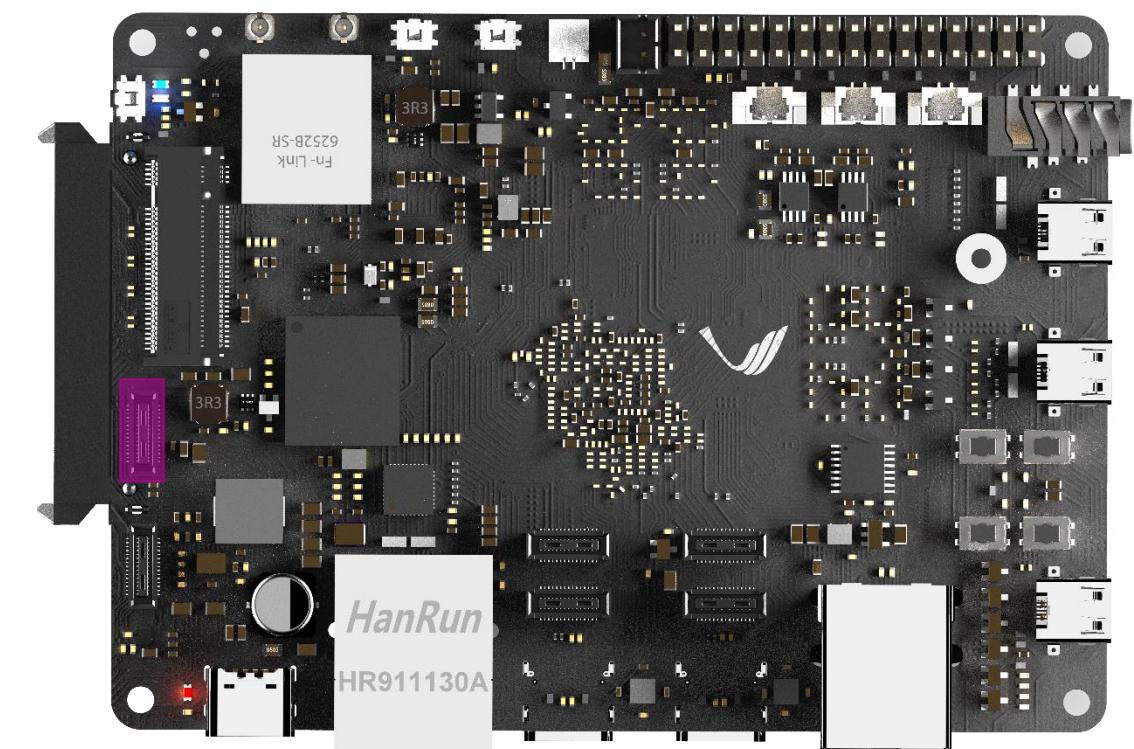
30 Pin

0.4mm Pitch

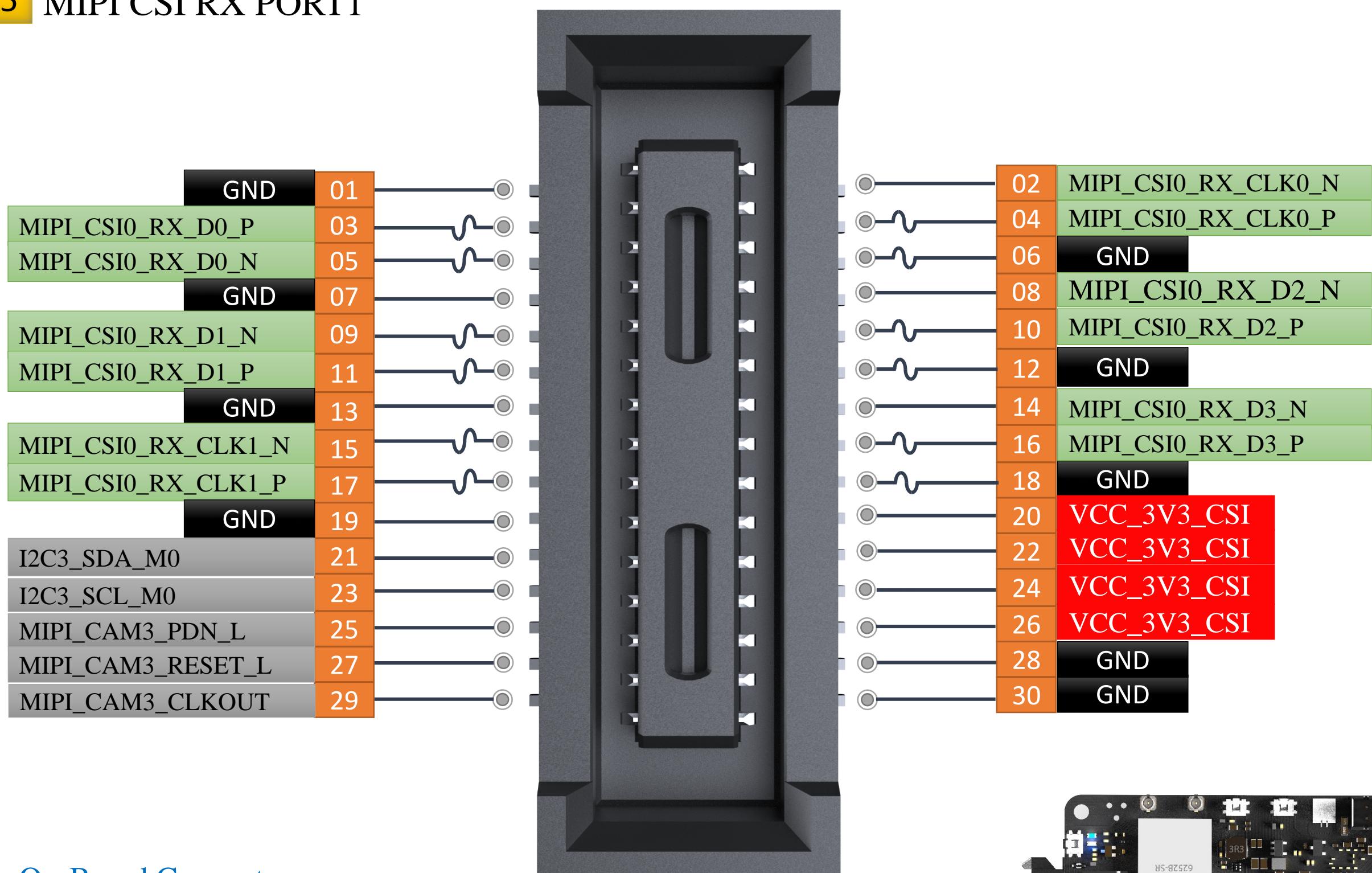
MPN : DF40C-30DP-0.4V(51)



# MIPI CSI RX0



## 05 MIPI CSI RX PORT1



On-Board Connector

30 Pin

0.4mm Pitch

MPN : DF40HB(2.0)-30DS-0.4V(51)

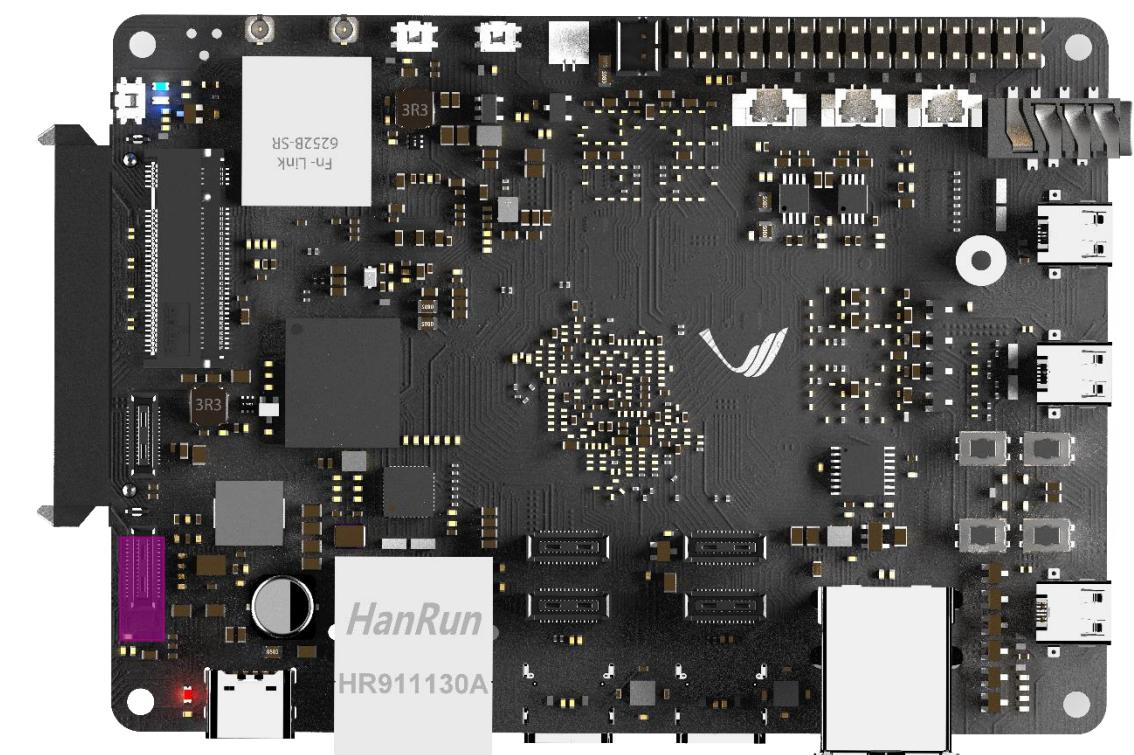
# MIPI CSI RX1

Mating Connector

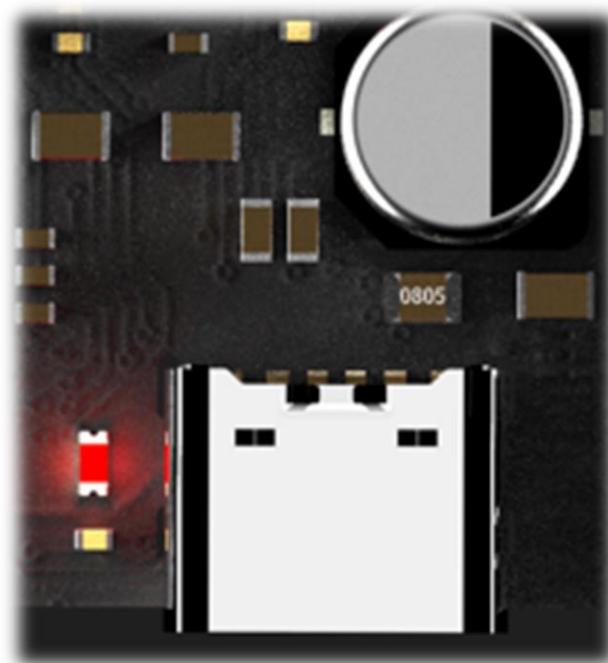
30 Pin

0.4mm Pitch

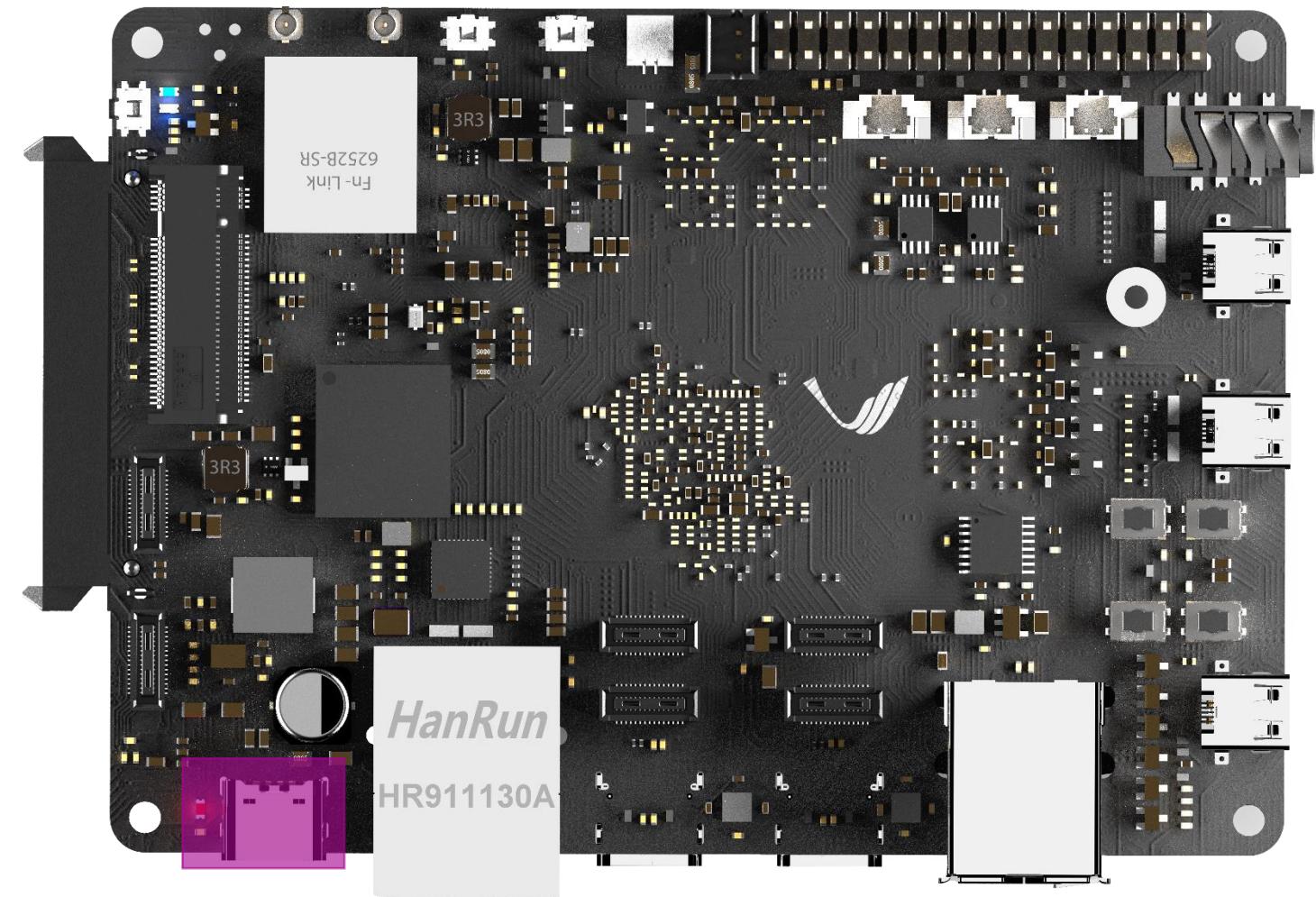
MPN : DF40C-30DP-0.4V(51)

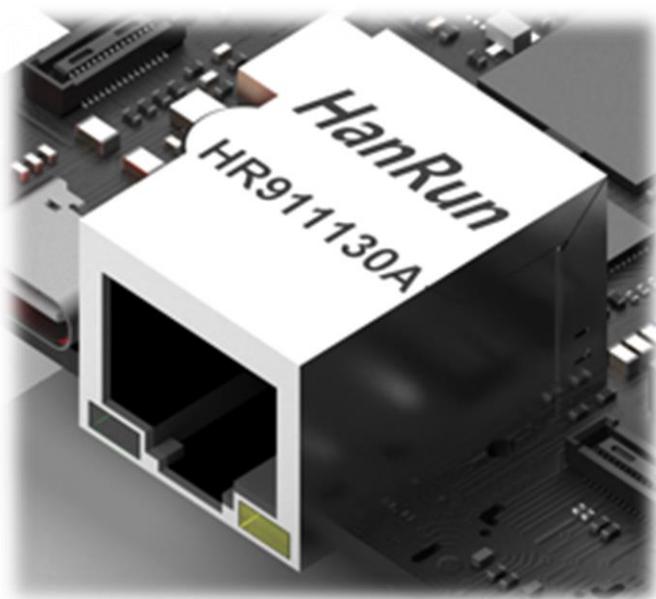


PWR  
LED

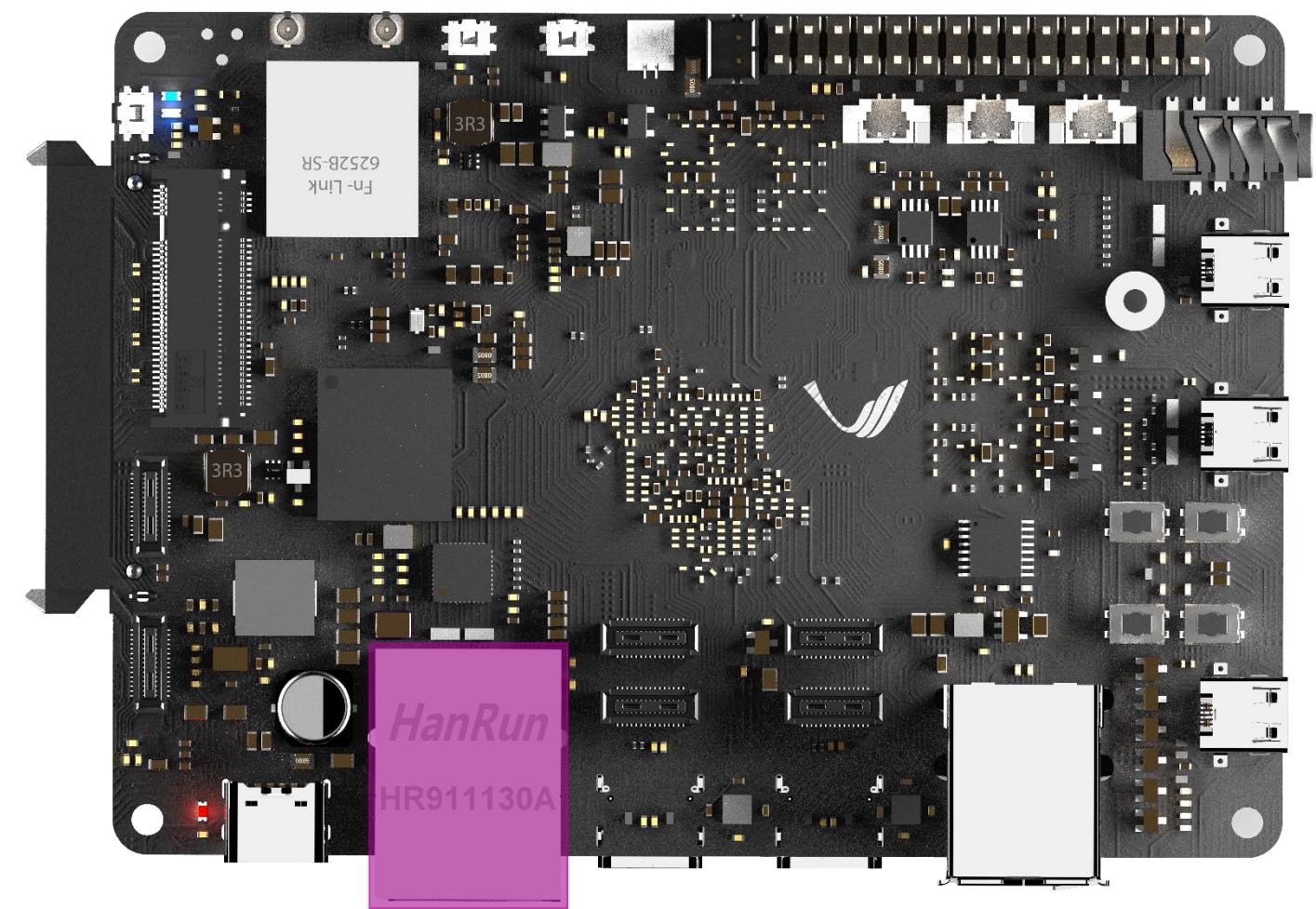


Type-C Power Input  
(12VDC-5A)





**ETHERNET**  
**(10/100/1000Mbps)**



## 08 MIPI D-PHY TX PORT0

	GND	01	
MIPI_DPHY0_TX_D2_P	03		
MIPI_DPHY0_TX_D2_N	05		
	GND	07	
MIPI_DPHY0_TX_D1_N	09		
MIPI_DPHY0_TX_D1_P	11		
	GND	13	
MIPI_DPHY0_TX_D0_N	15		
MIPI_DPHY0_TX_D0_P	17		
	GND	19	
TP_RST_L_0	21		
TP_INT_L_0	23		
I2C5_SCL_M0_TP	25		
I2C5_SDA_M0_TP	27		
LCD_BL_PWM1	29		
		02	MIPI_DPHY0_TX_D3_P
		04	MIPI_DPHY0_TX_D3_N
		06	GND
		08	MIPI_DPHY0_TX_CLK_P
		10	MIPI_DPHY0_TX_CLK_N
		12	GND
		14	GND
		16	GND
		18	GND
		20	VCC_3V3_MIPI_TX
		22	VCC_3V3_MIPI_TX
		24	VCC_3V3_MIPI_TX
		26	VCC_3V3_MIPI_TX
		28	LCD_BL_EN_0
		30	GND

On-Board Connector

30 Pin

0.4mm Pitch

MPN : DF40HC(3.5)-30DS-0.4V(51)

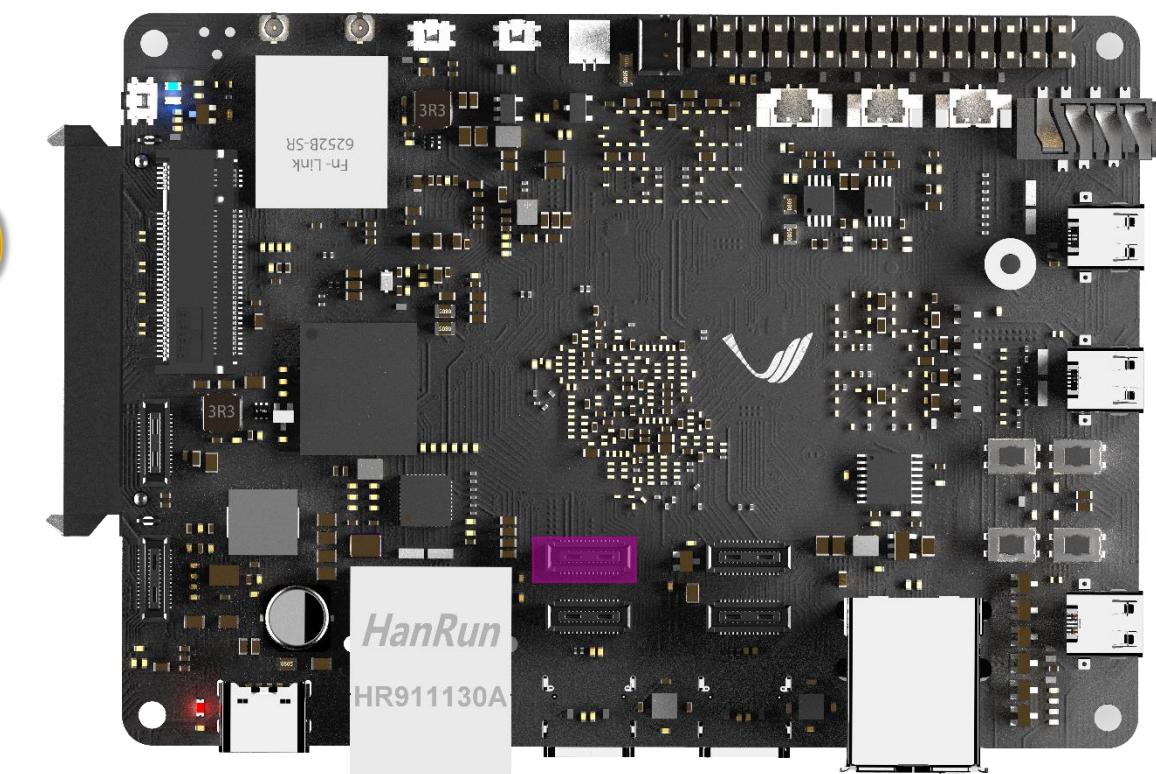
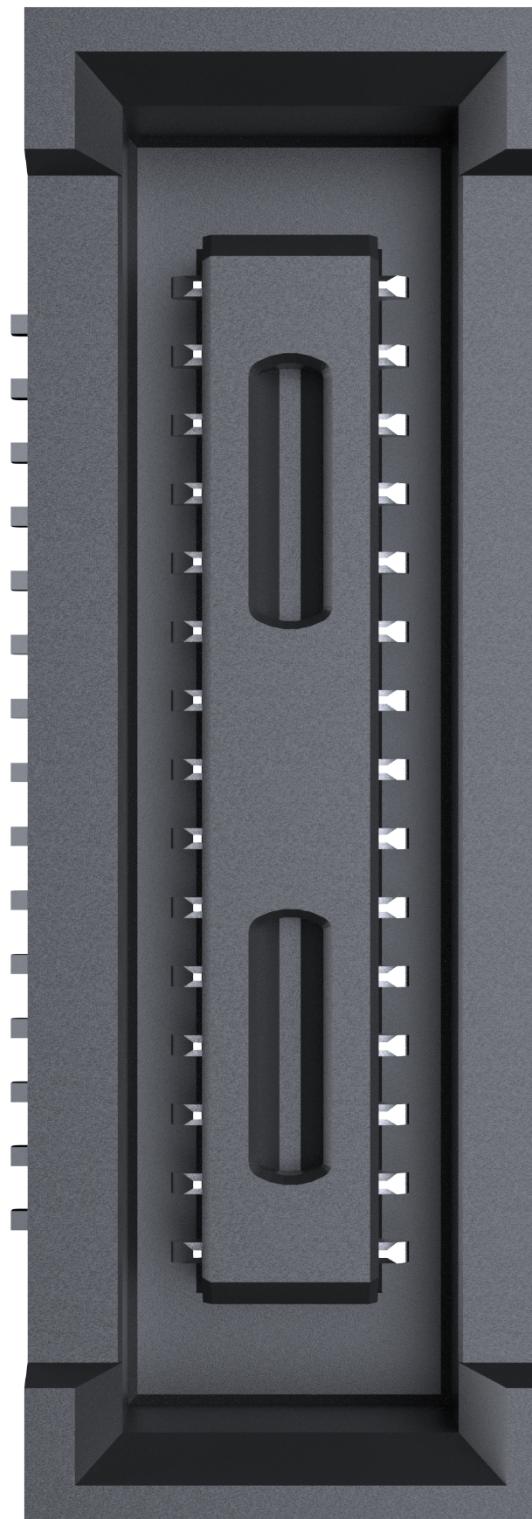
**MIPI DPHY TX0**

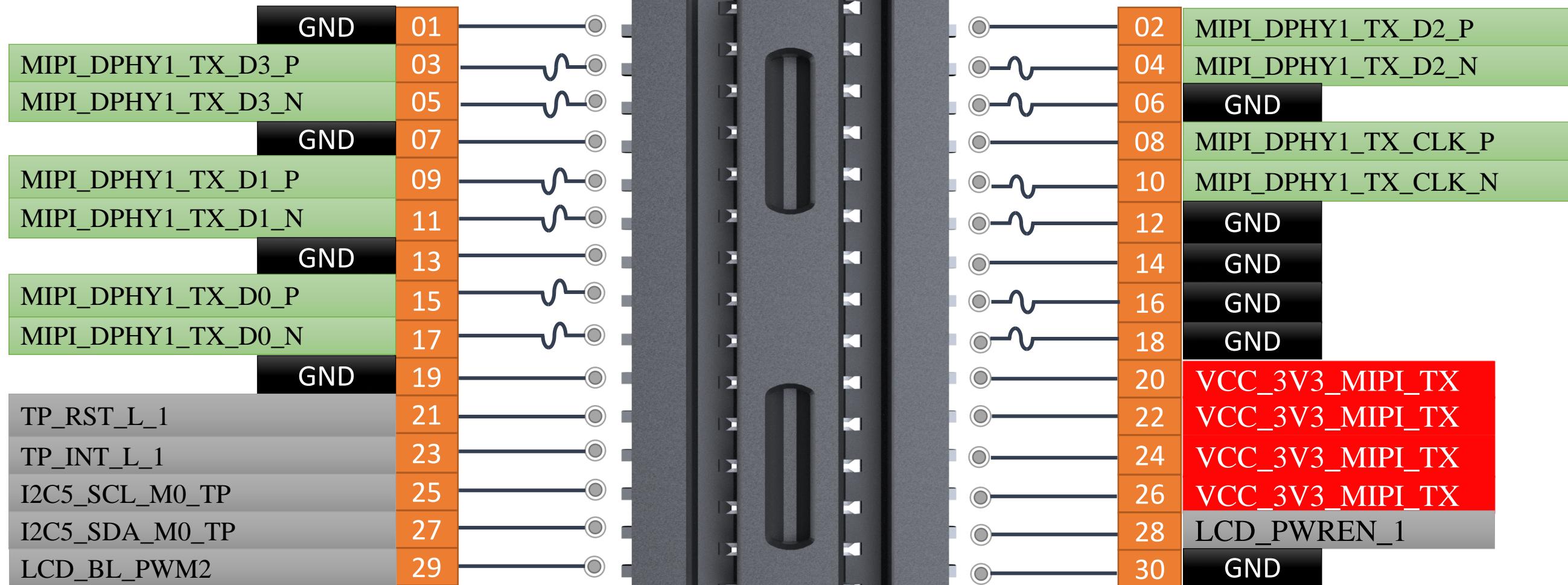
Mating Connector

30 Pin

0.4mm Pitch

MPN : DF40C-30DP-0.4V(51)





## On-Board Connector

30 Pin

0.4mm Pitch

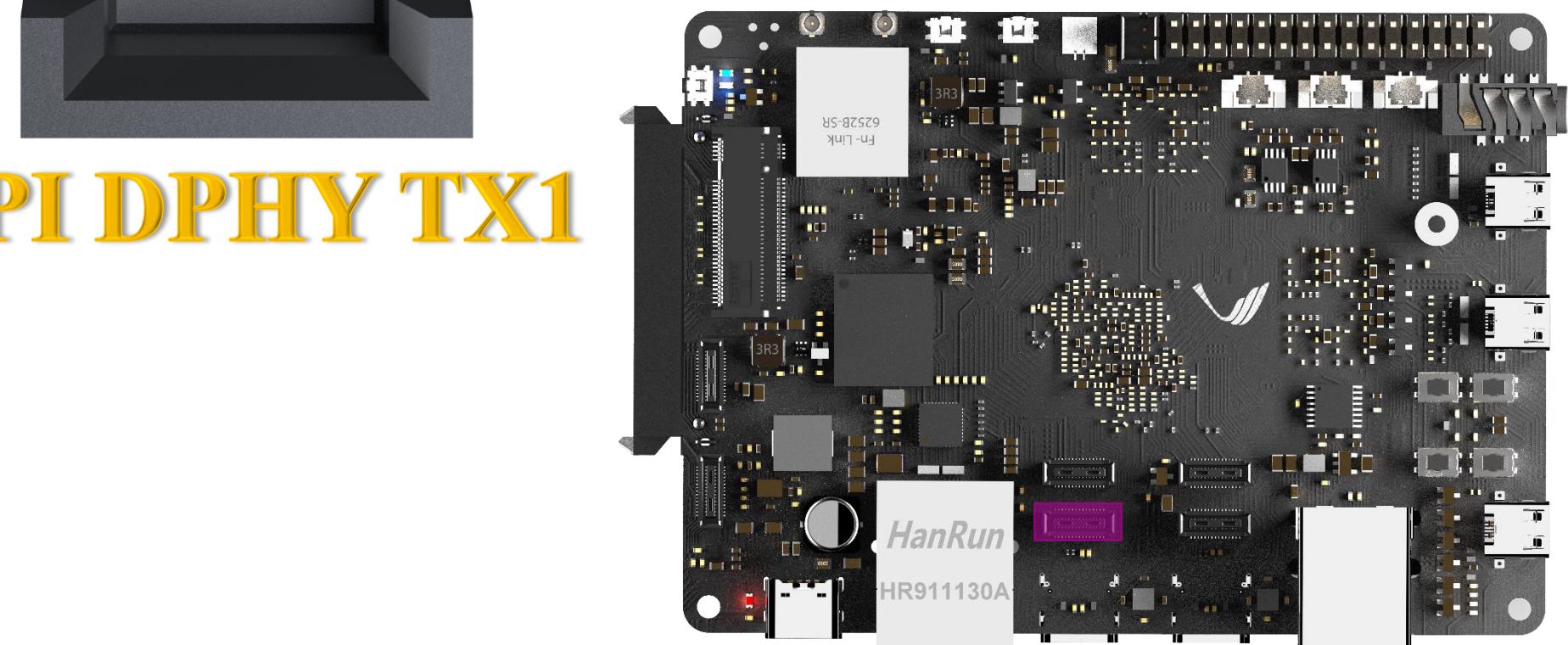
MPN : DF40HB(2.0)-30DS-0.4V(51)

## Mating Connector

30 Pin

0.4mm Pitch

MPN : DF40C-30DP-0.4V(51)



	GND	01	02	MIPI_DPHY0_RX_D2_P
MIPI_DPHY0_RX_D3_P		03	03	MIPI_DPHY0_RX_D2_N
MIPI_DPHY0_RX_D3_N	GND	05	05	
		07	06	GND
MIPI_DPHY0_RX_D1_P		09	08	MIPI_DPHY0_RX_CLK_P
MIPI_DPHY0_RX_D1_N	GND	11	10	MIPI_DPHY0_RX_CLK_N
		13	12	GND
MIPI_DPHY0_RX_D0_P		15	14	GND
MIPI_DPHY0_RX_D0_N		17	16	GND
	GND	19	18	GND
MIPI_CAM2_CLKOUT		21	20	VCC_3V3_MIPI_TX
MIPI_CAM1/2_RESET_L		23	22	VCC_3V3_MIPI_TX
MIPI_CAM2_PDN_L		25	24	VCC_3V3_MIPI_TX
I2C2_SCL_M4_MIPI		27	26	VCC_3V3_MIPI_TX
I2C2_SDA_M4_MIPI		29	28	GND
			30	GND

# On-Board Connector

## 30 Pin

0.4mm Pitch

MPN : DF40HB(2.0)-30DS-0.4V(51)

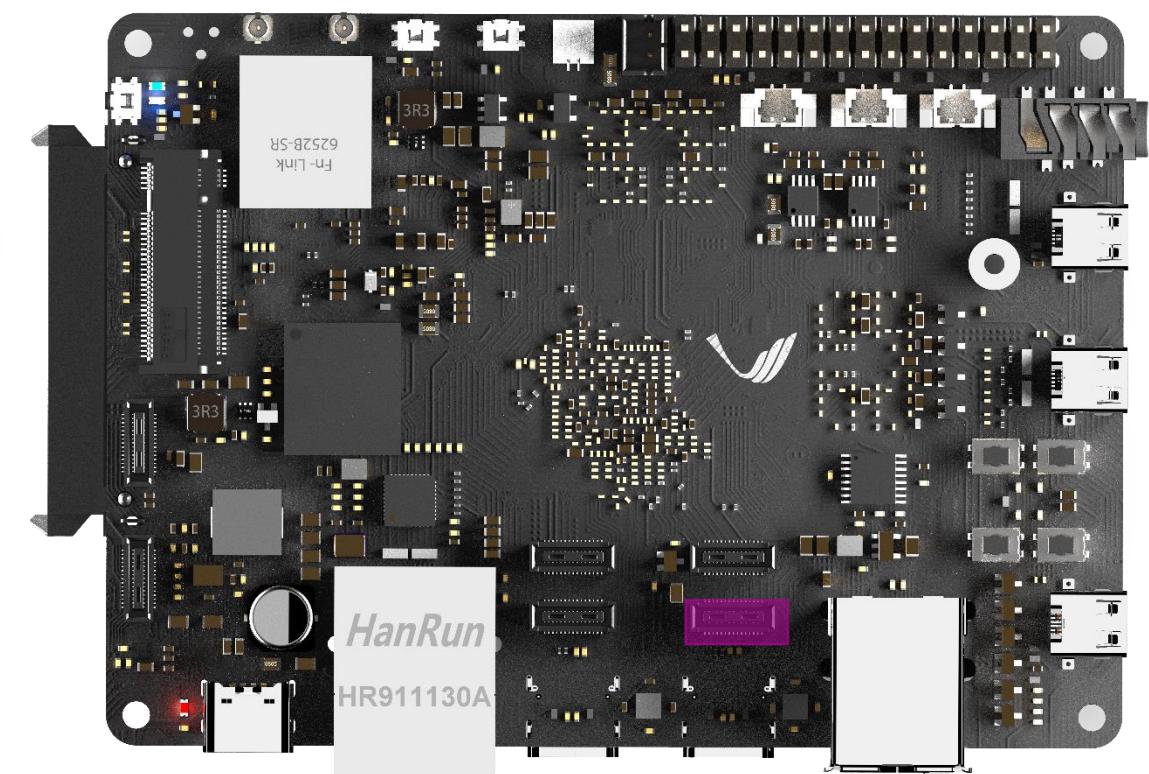
# Mating Connector

## 30 Pin

0.4mm Pitch

MPN : DF40C-30DP-0.4V(51)

# MIPI DPHY RX0



## 11 MIPI D-PHY RX PORT1

GND	01	
MIPI_DPHY1_RX_D3_P	03	
MIPI_DPHY1_RX_D3_N	05	
GND	07	
MIPI_DPHY1_RX_D2_P	09	
MIPI_DPHY1_RX_D2_N	11	
GND	13	
MIPI_DPHY1_RX_CLK_P	15	
MIPI_DPHY1_RX_CLK_N	17	
GND	19	
MIPI_CAM1_CLKOUT	21	
MIPI_CAM1/2_RESET_L	23	
MIPI_CAM1_PDN_L	25	
I2C2_SCL_M4_MIPI	27	
I2C2_SDA_M4_MIPI	29	
	02	MIPI_DPHY1_RX_D1_N
	04	MIPI_DPHY1_RX_D1_P
	06	GND
	08	MIPI_DPHY1_RX_D0_N
	10	MIPI_DPHY1_RX_D0_P
	12	GND
	14	GND
	16	GND
	18	GND
	20	VCC_3V3_MIPI_TX
	22	VCC_3V3_MIPI_TX
	24	VCC_3V3_MIPI_TX
	26	VCC_3V3_MIPI_TX
	28	GND
	30	GND

# On-Board Connector

# 30 Pin

0.4mm Pitch

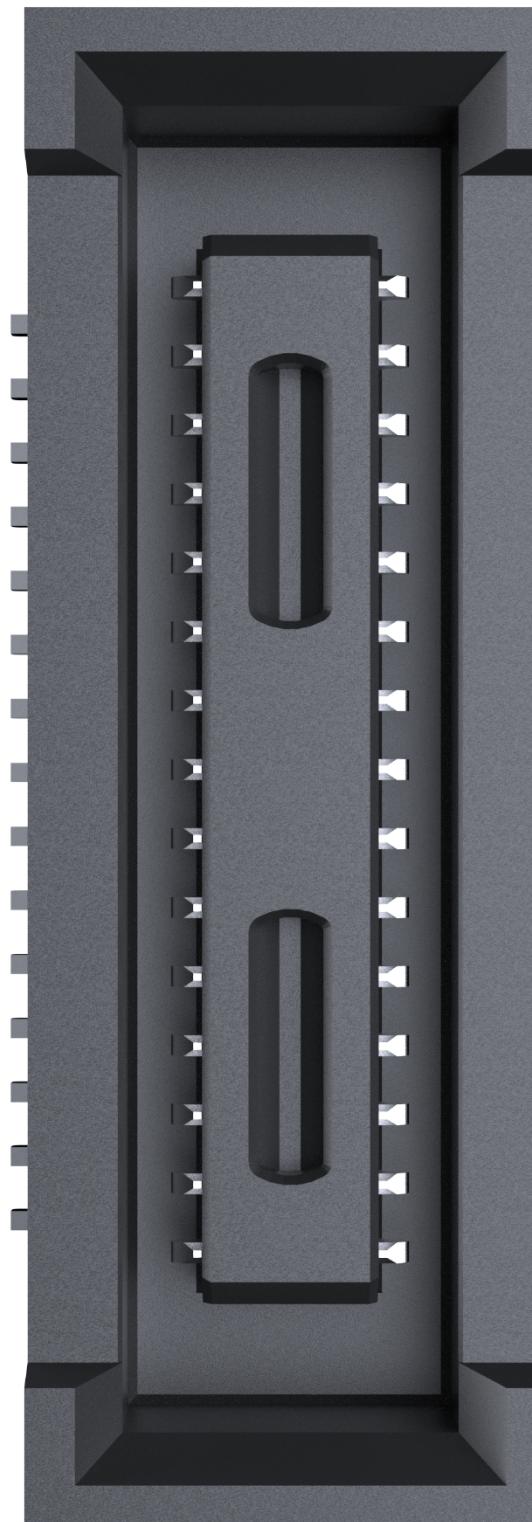
MPN : DF40HC(3.5)-30DS-0.4V(51)

# Mating Connector

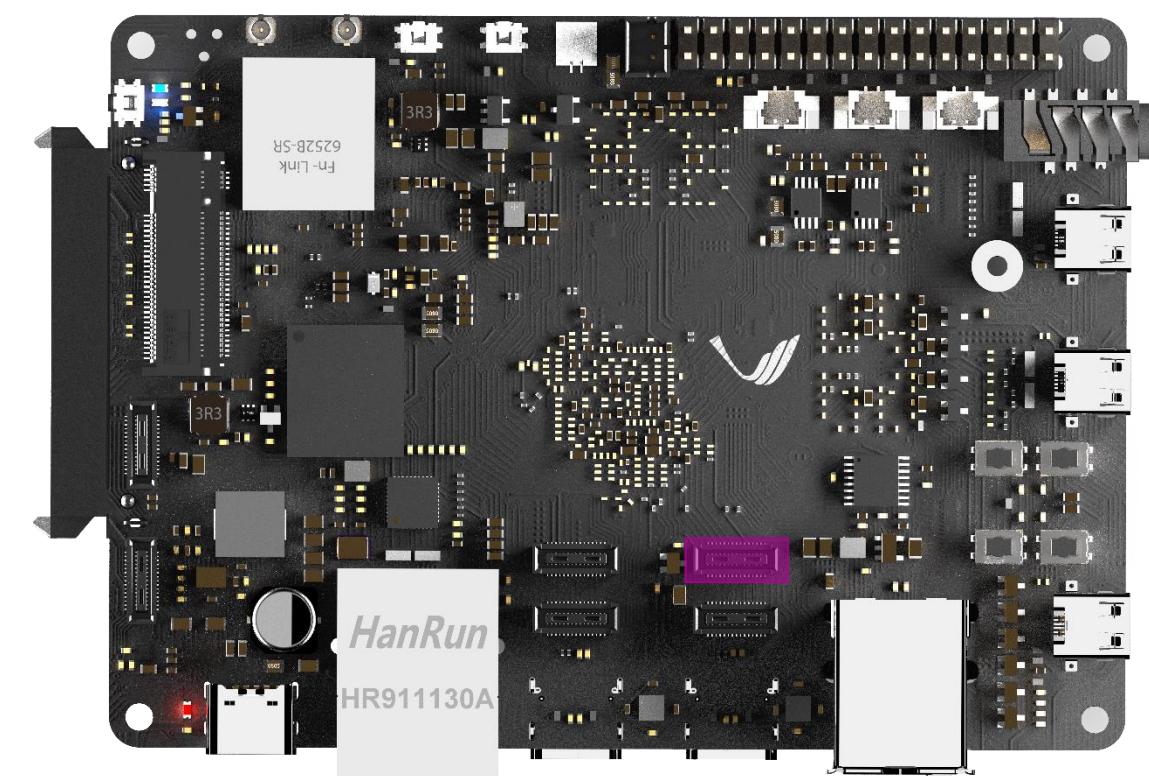
30 Pin

0.4mm Pitch

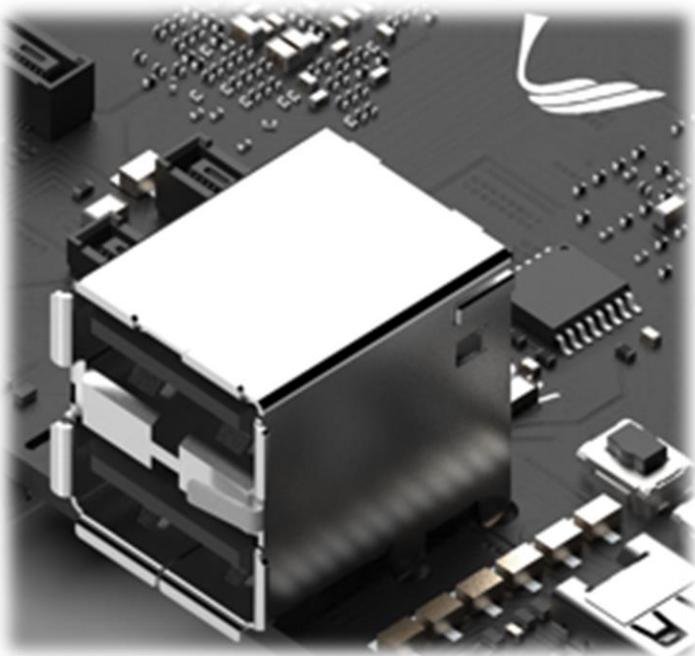
MPN : DF40C-30DP-0.4V(51)



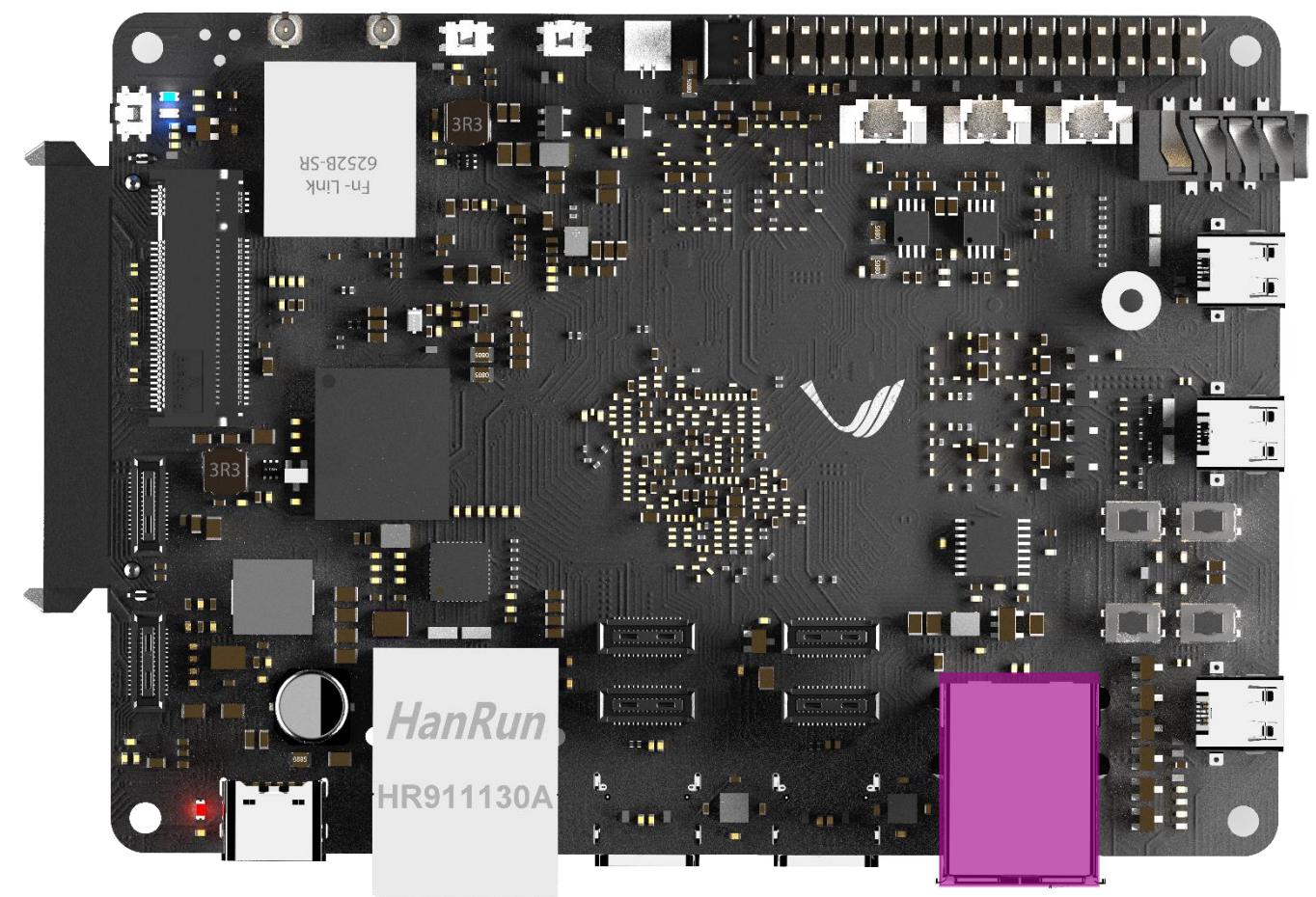
# MIPI DPHY RX1

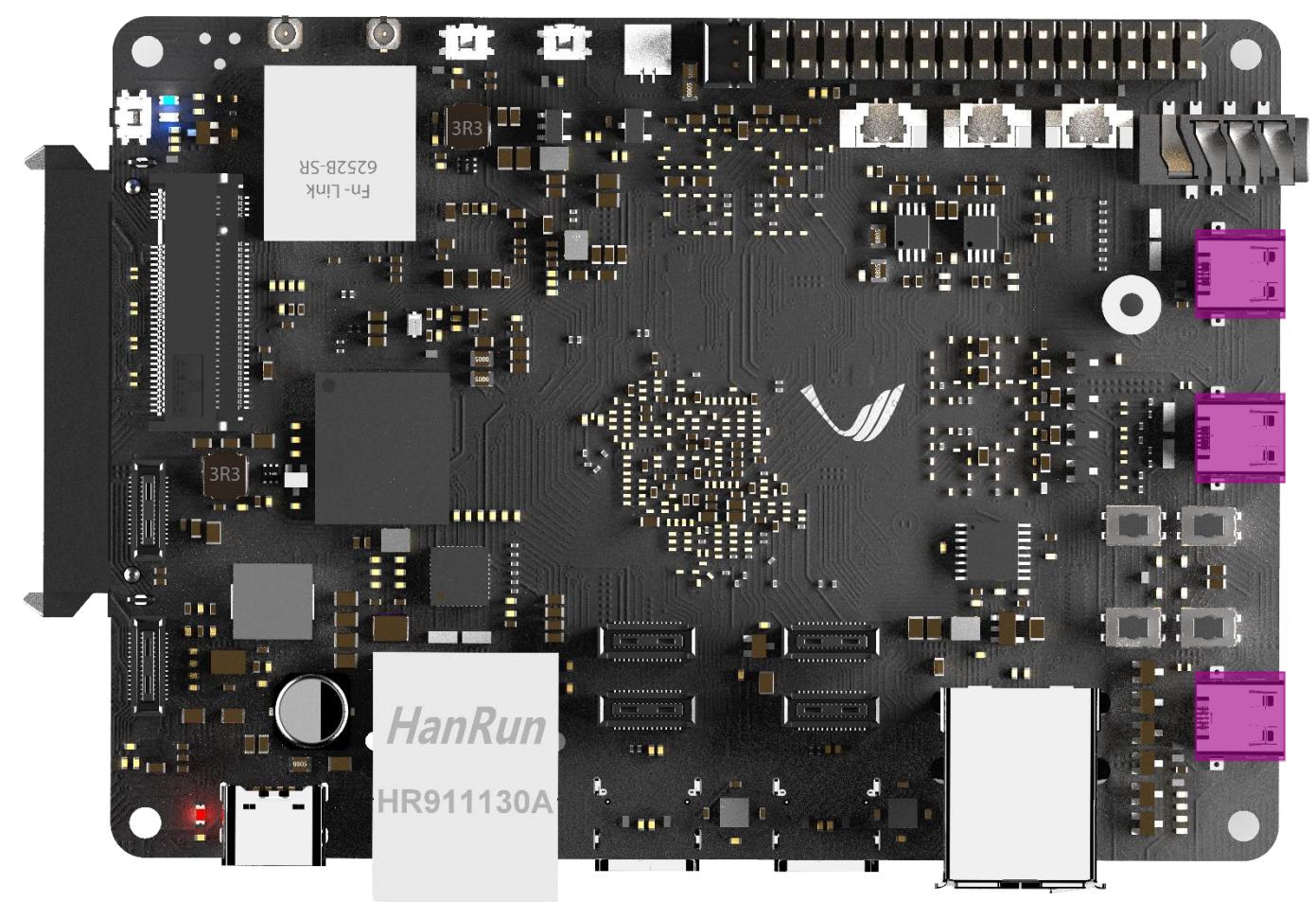
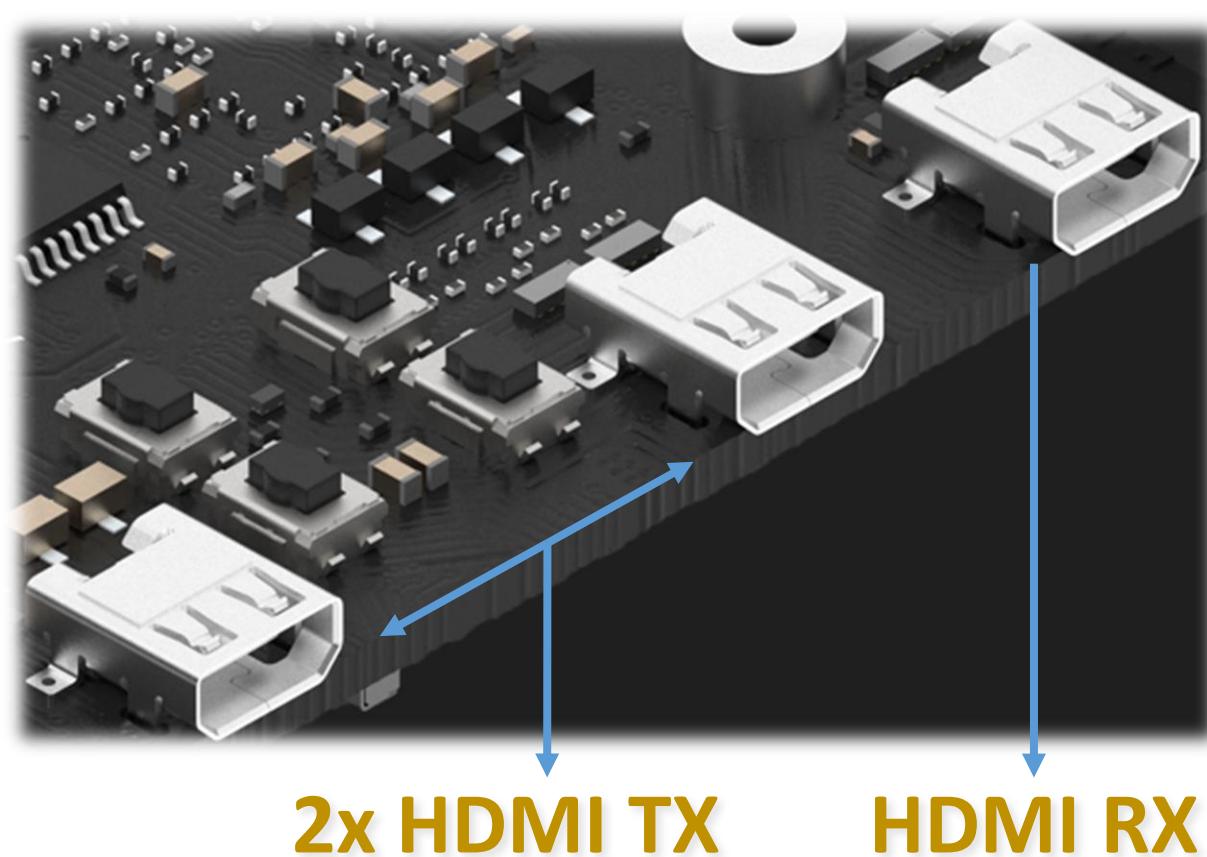


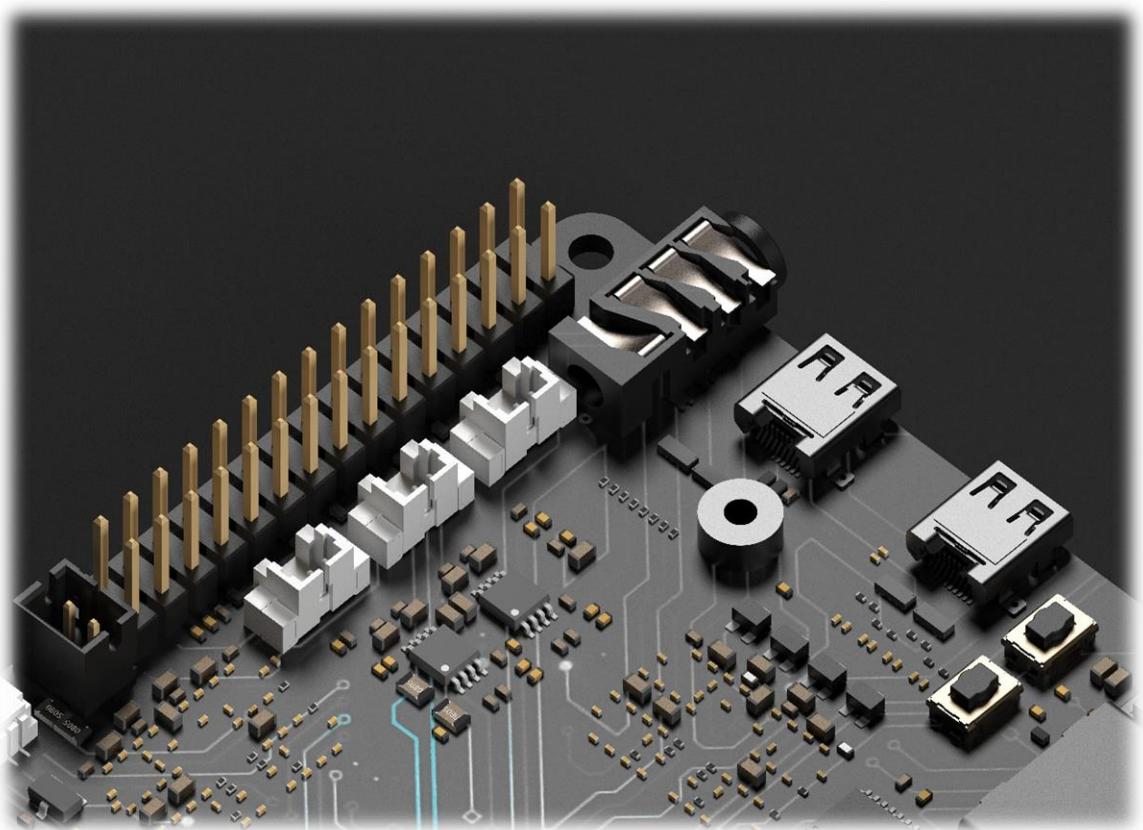
## 12 Dual USB2.0 HOST



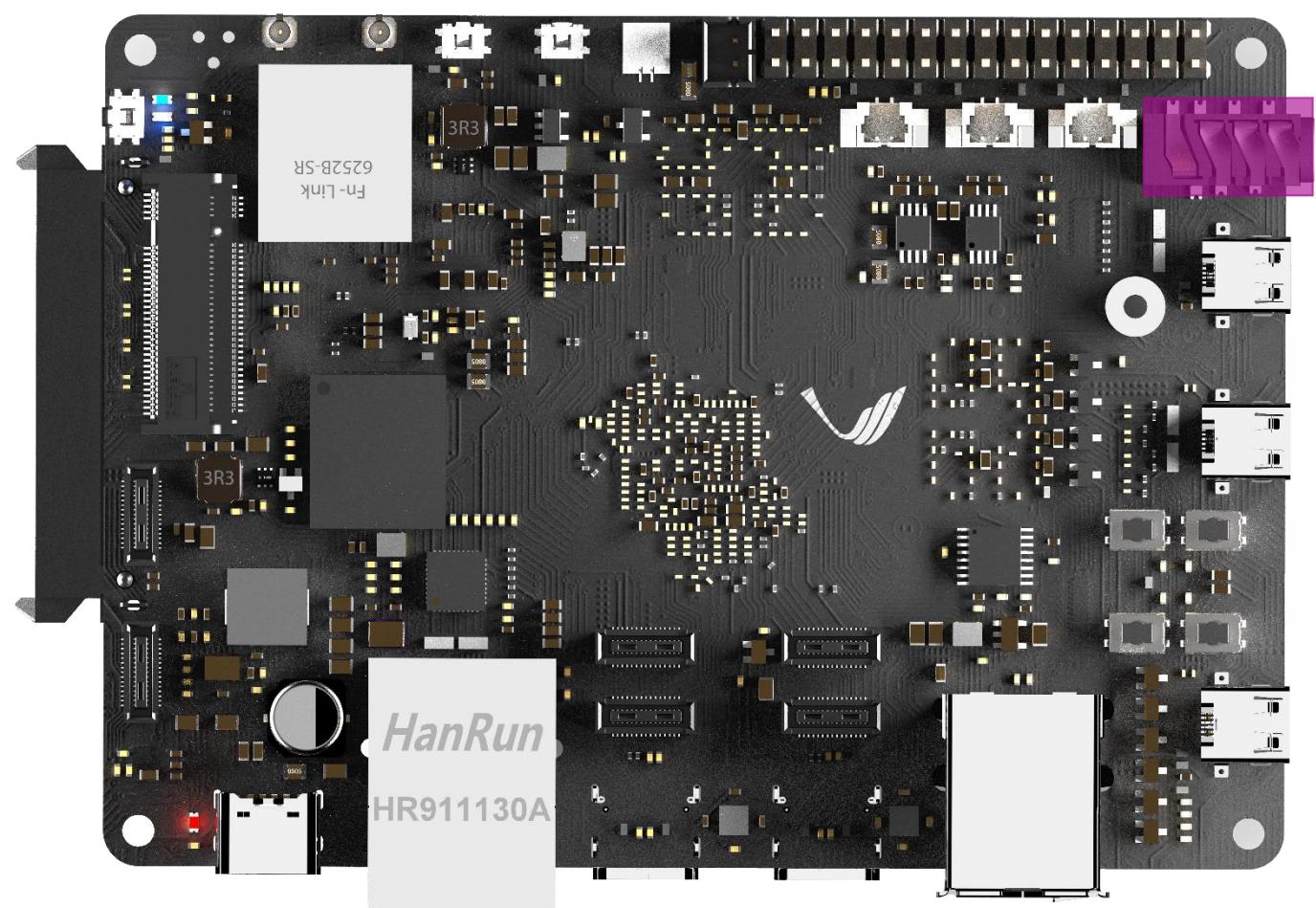
**2x USB2.0 HOST**



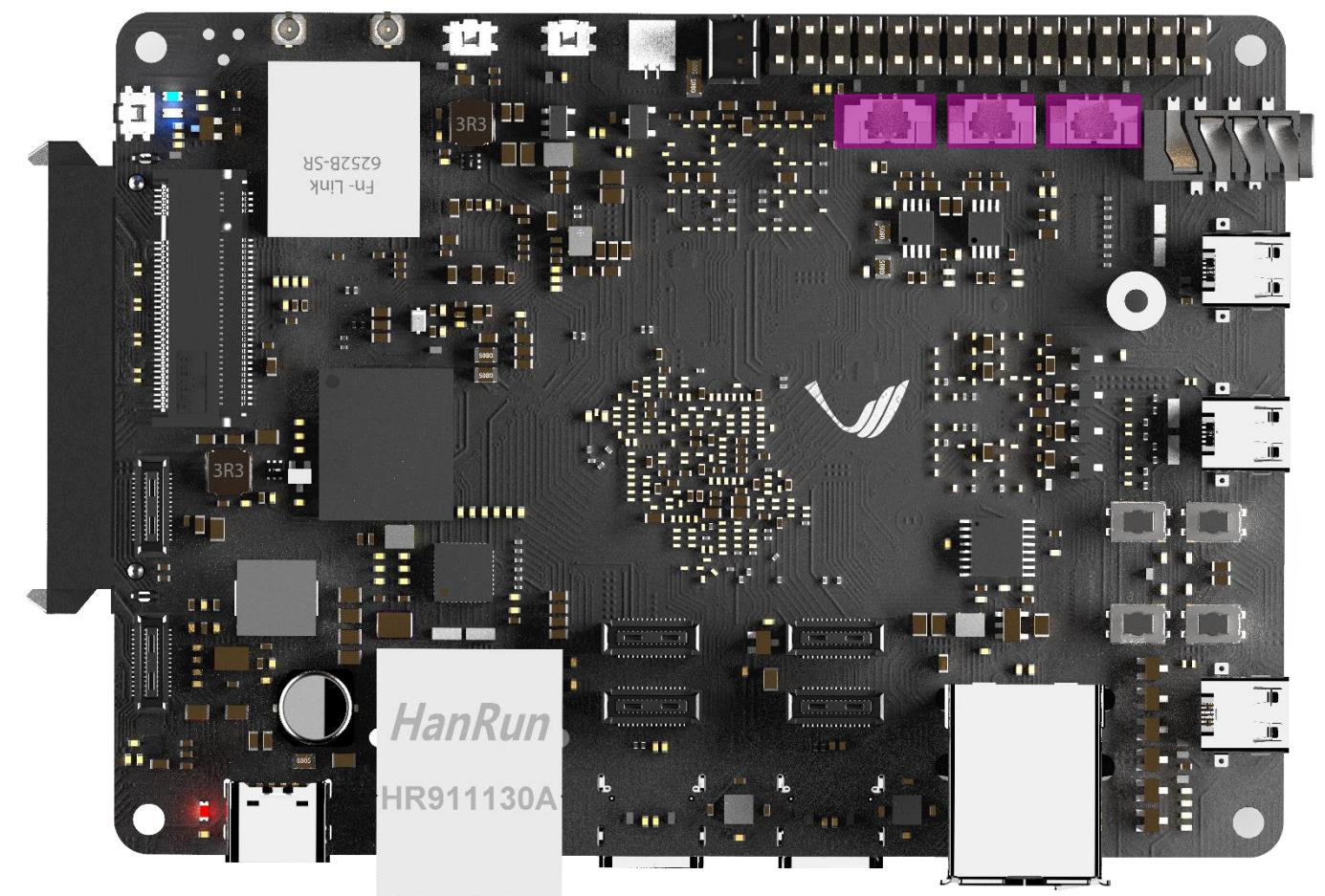
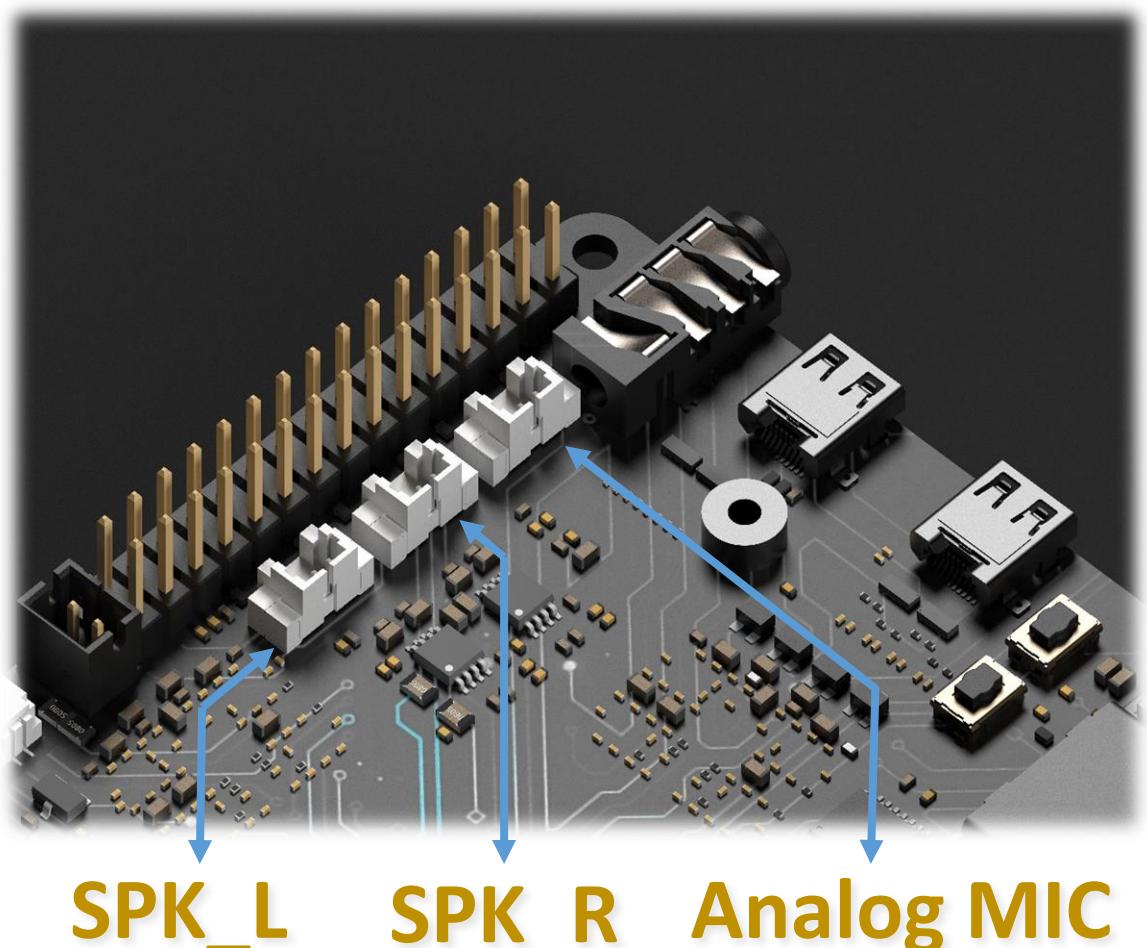


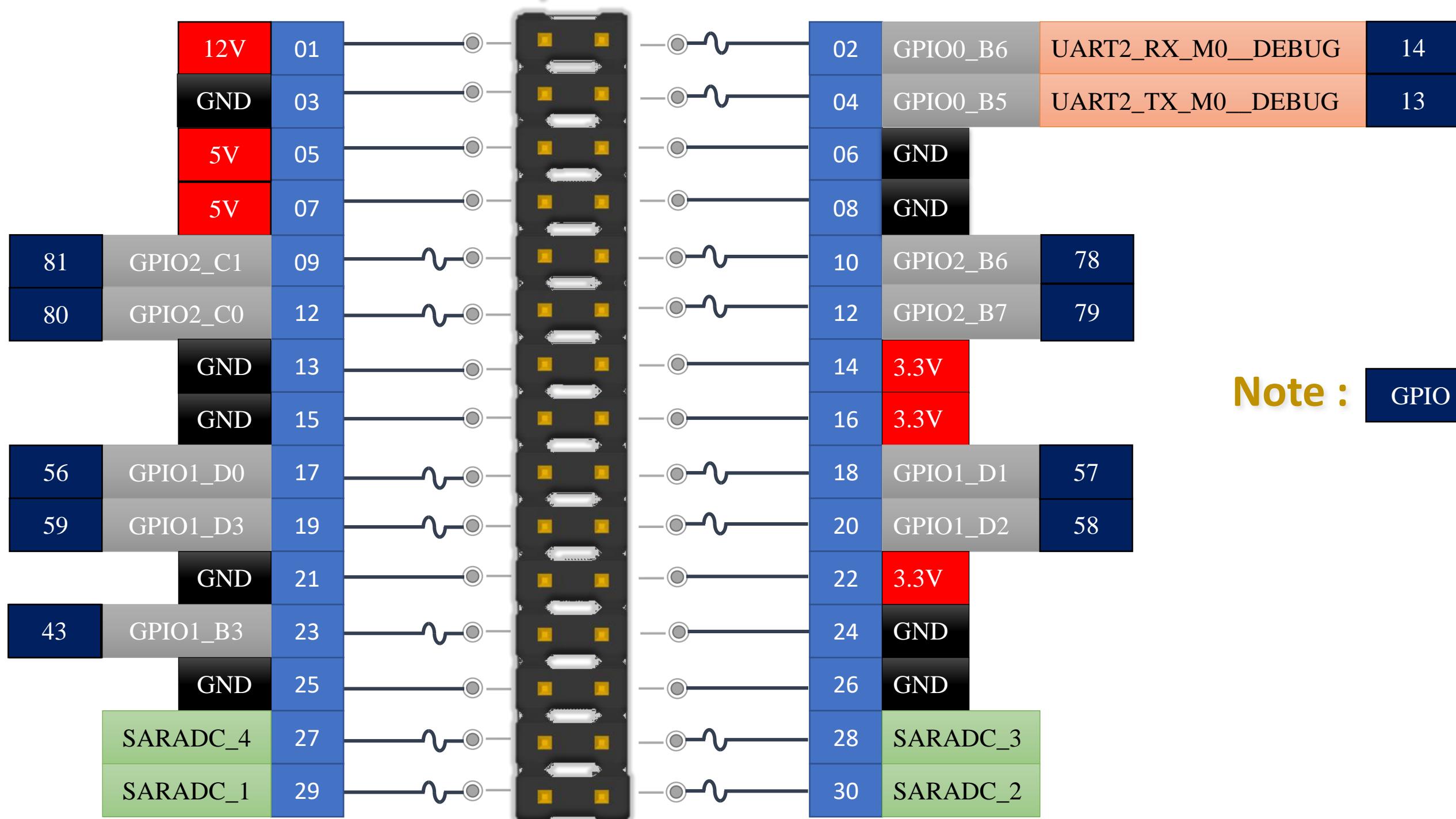


**3.5mm Audio Jack with MIC**

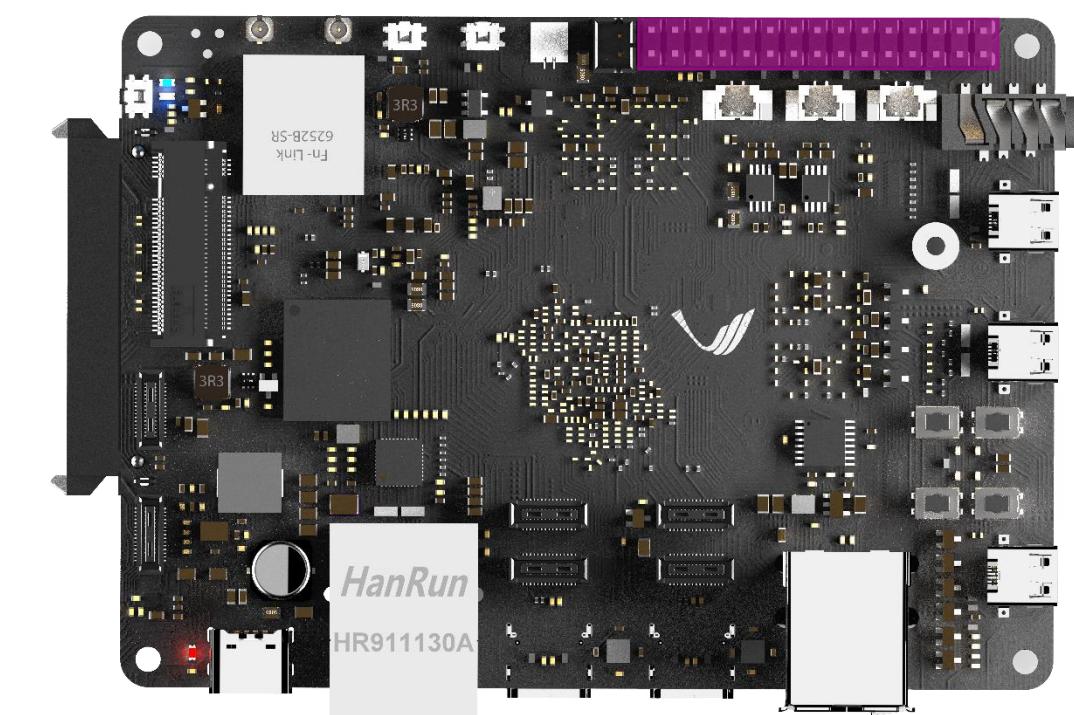


## 15 Analog Mic and Speaker

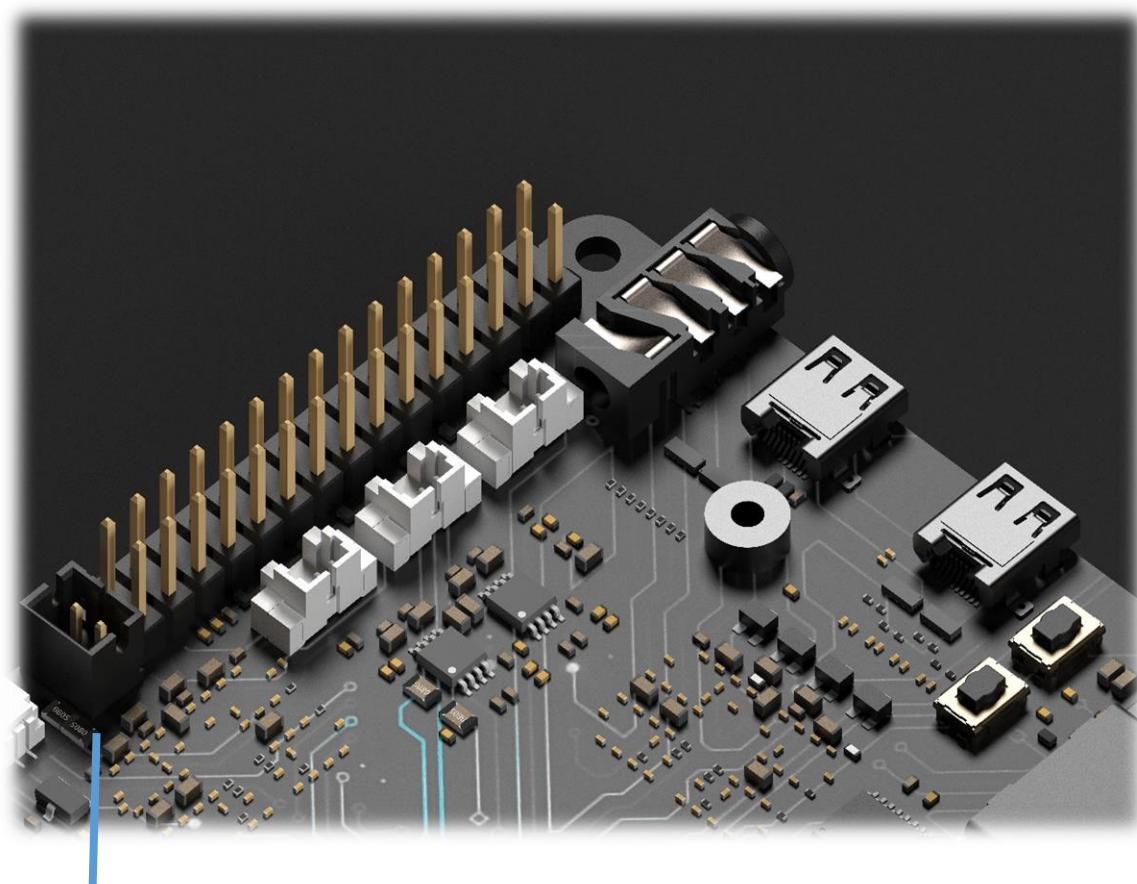




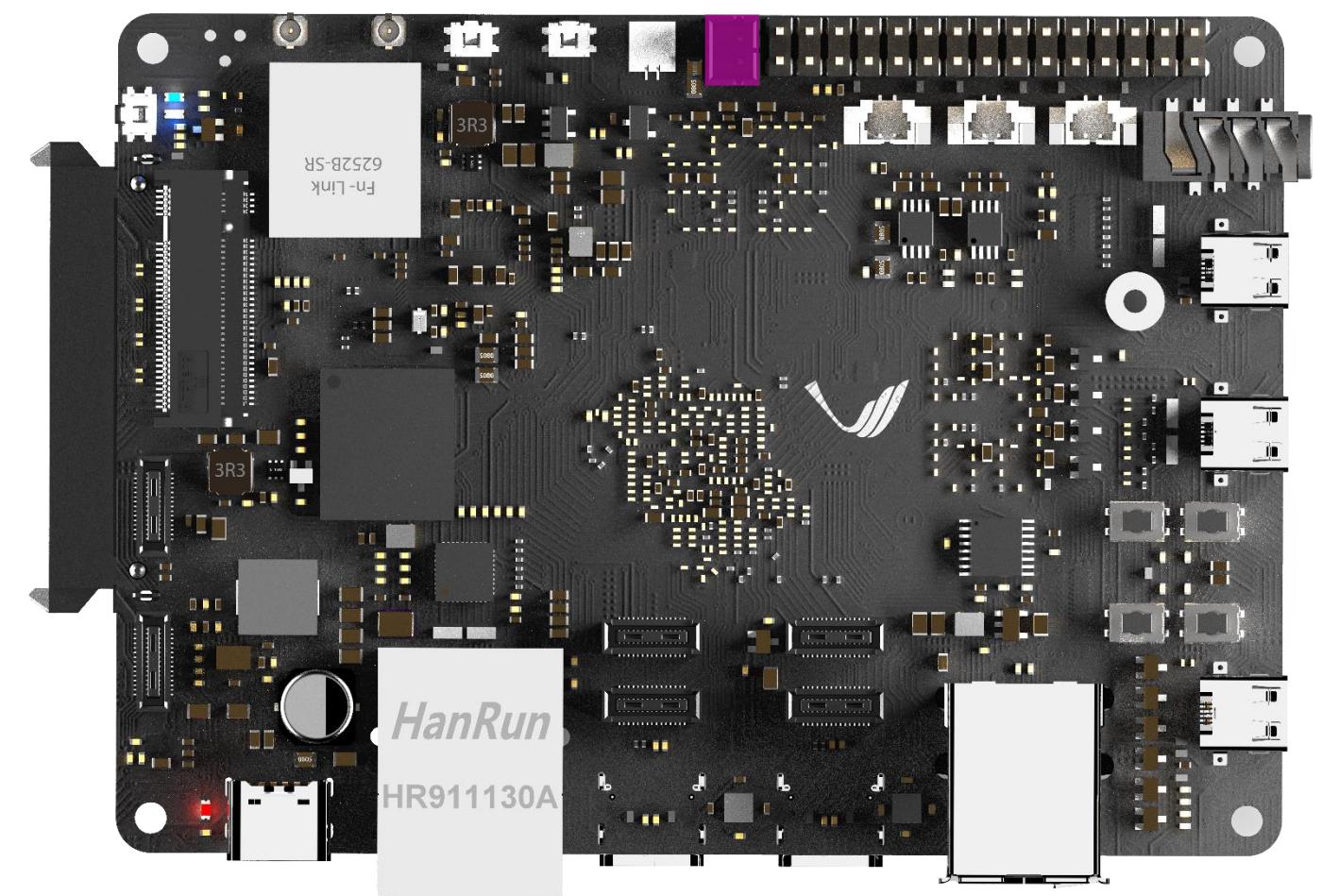
RK3588 30Pin GPIO Header 2.54mm

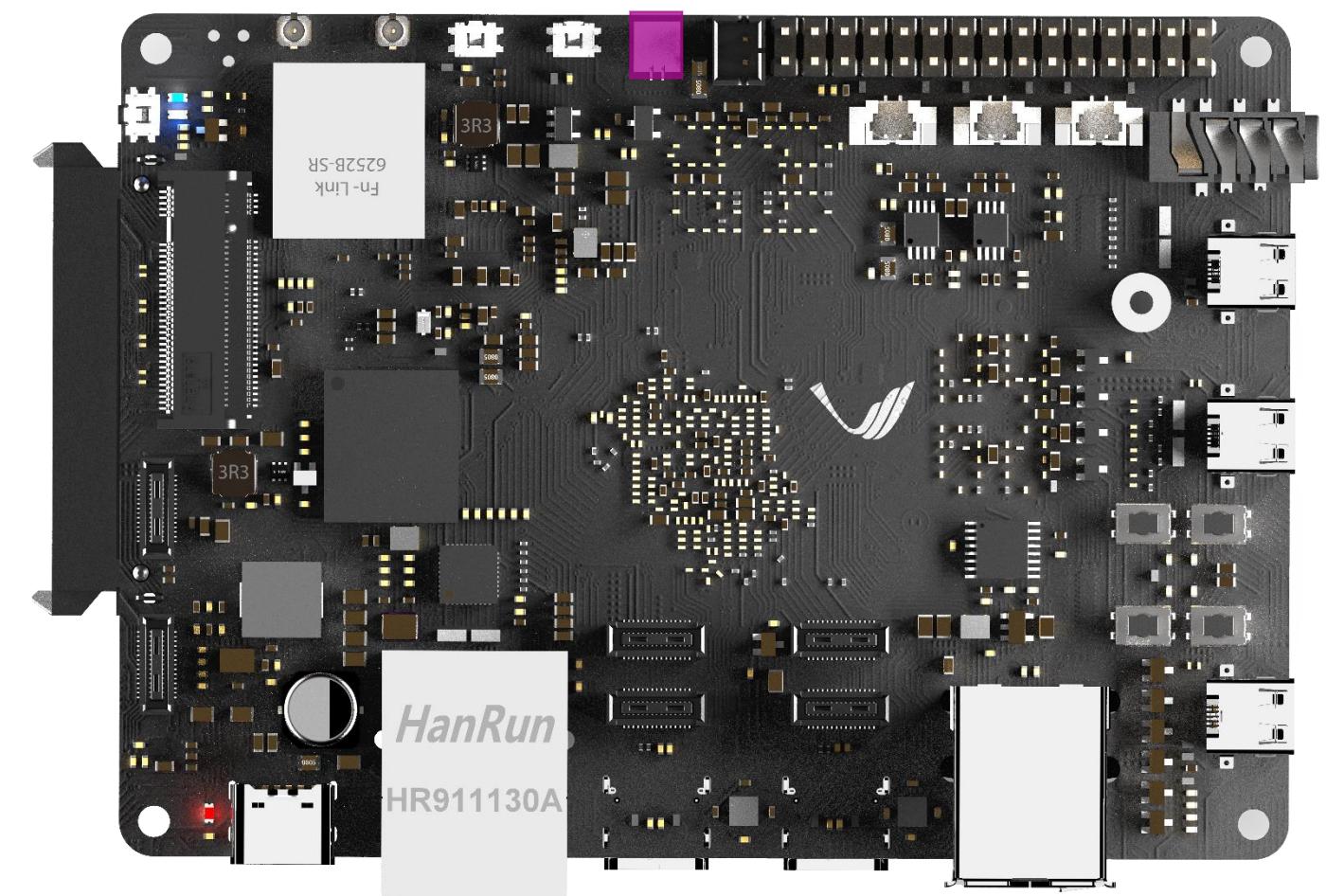
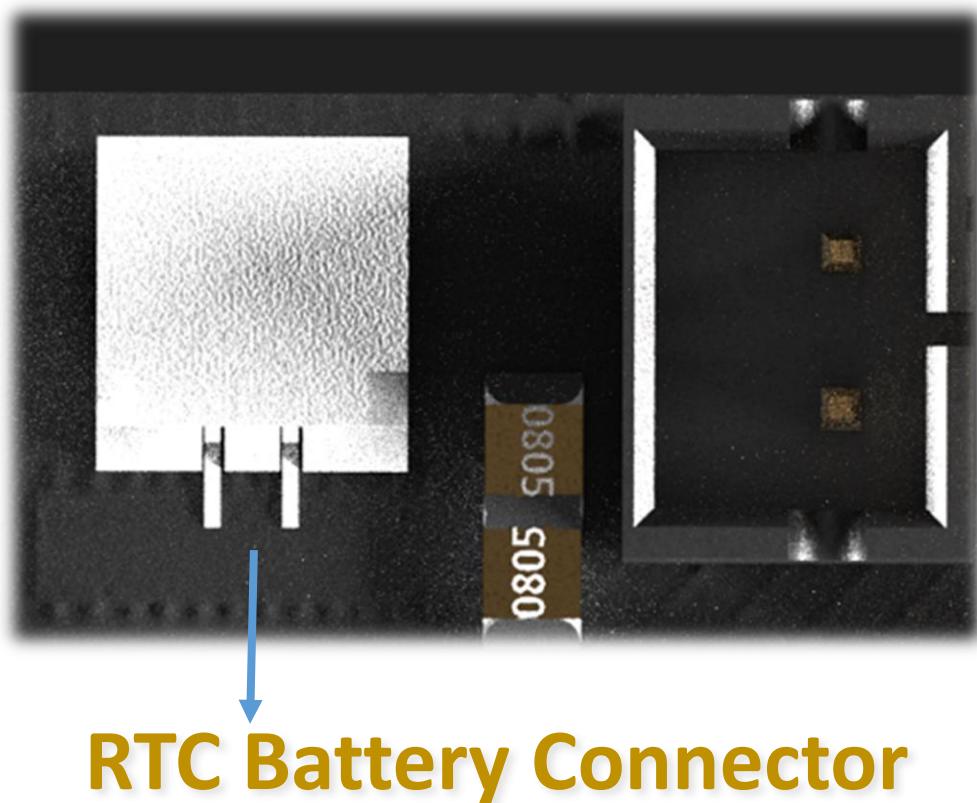


## 17 DC FAN Connector

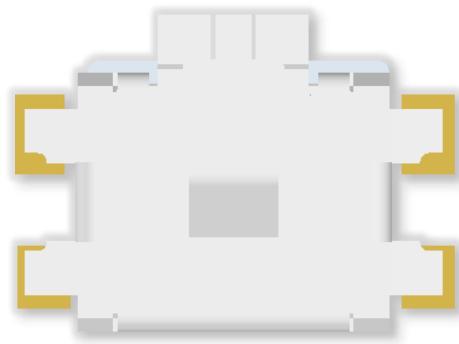


**Fan Connector : 2.0mm Pitch**

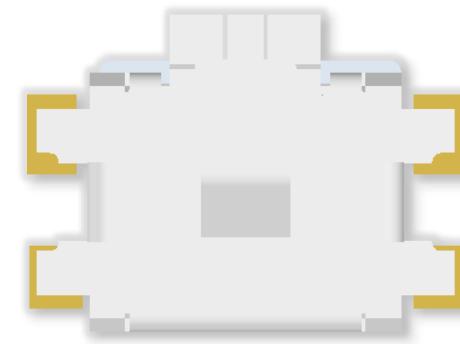




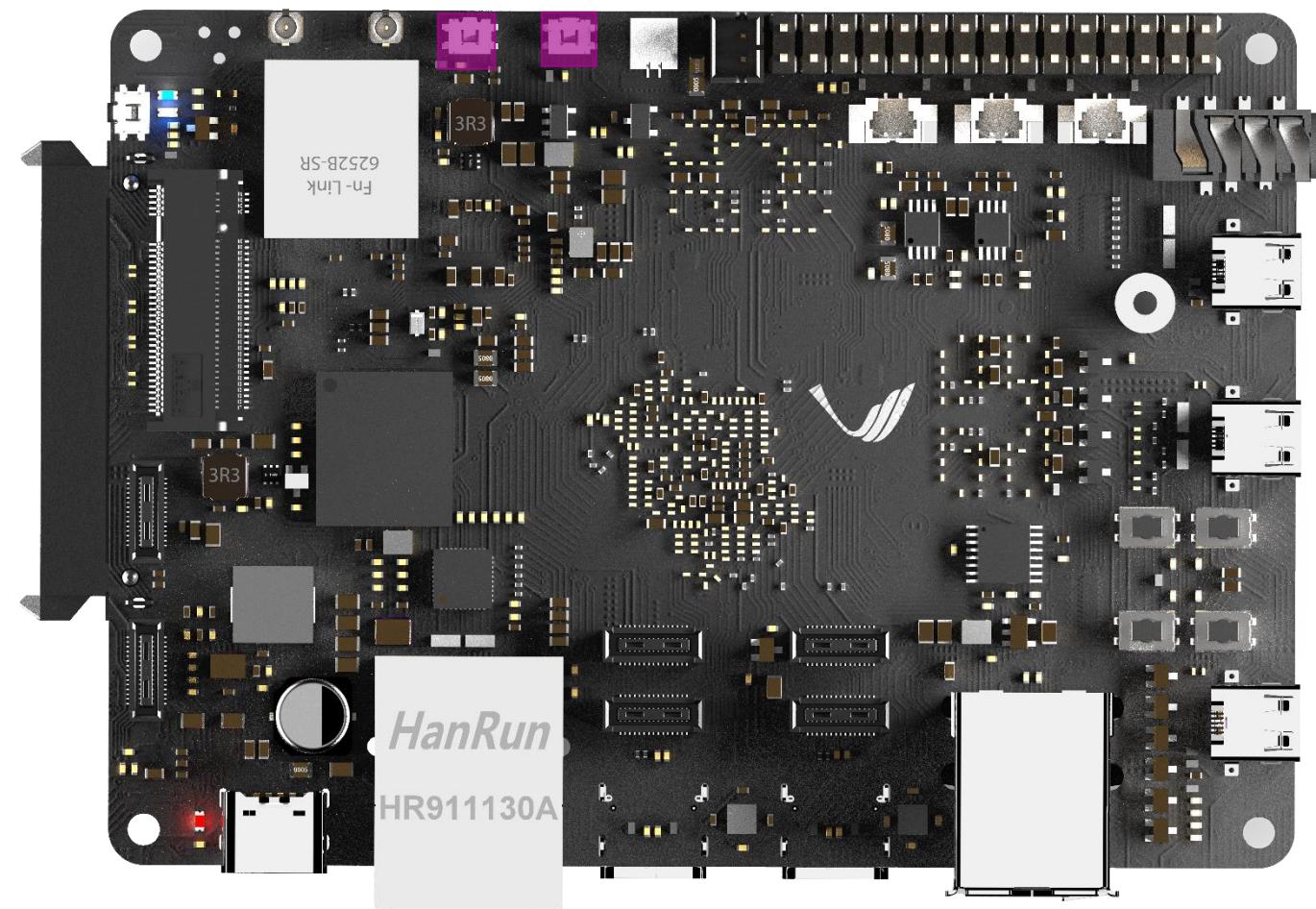
## 19 Reset & Power Key



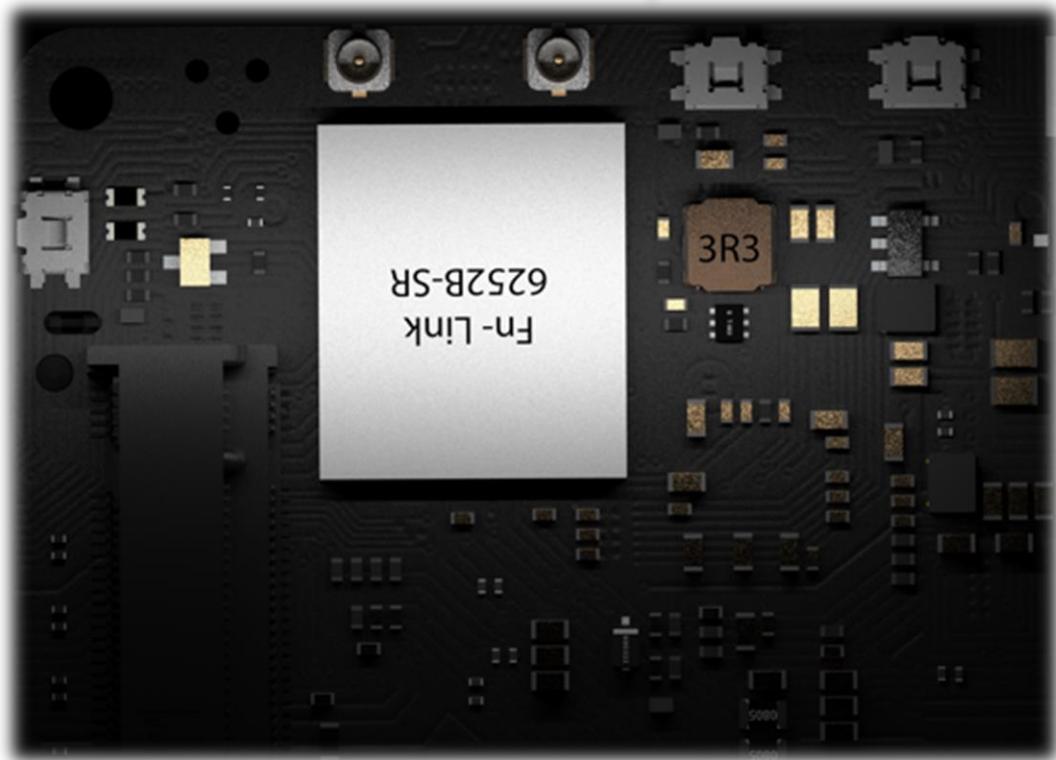
**PWR  
on/off  
Key**



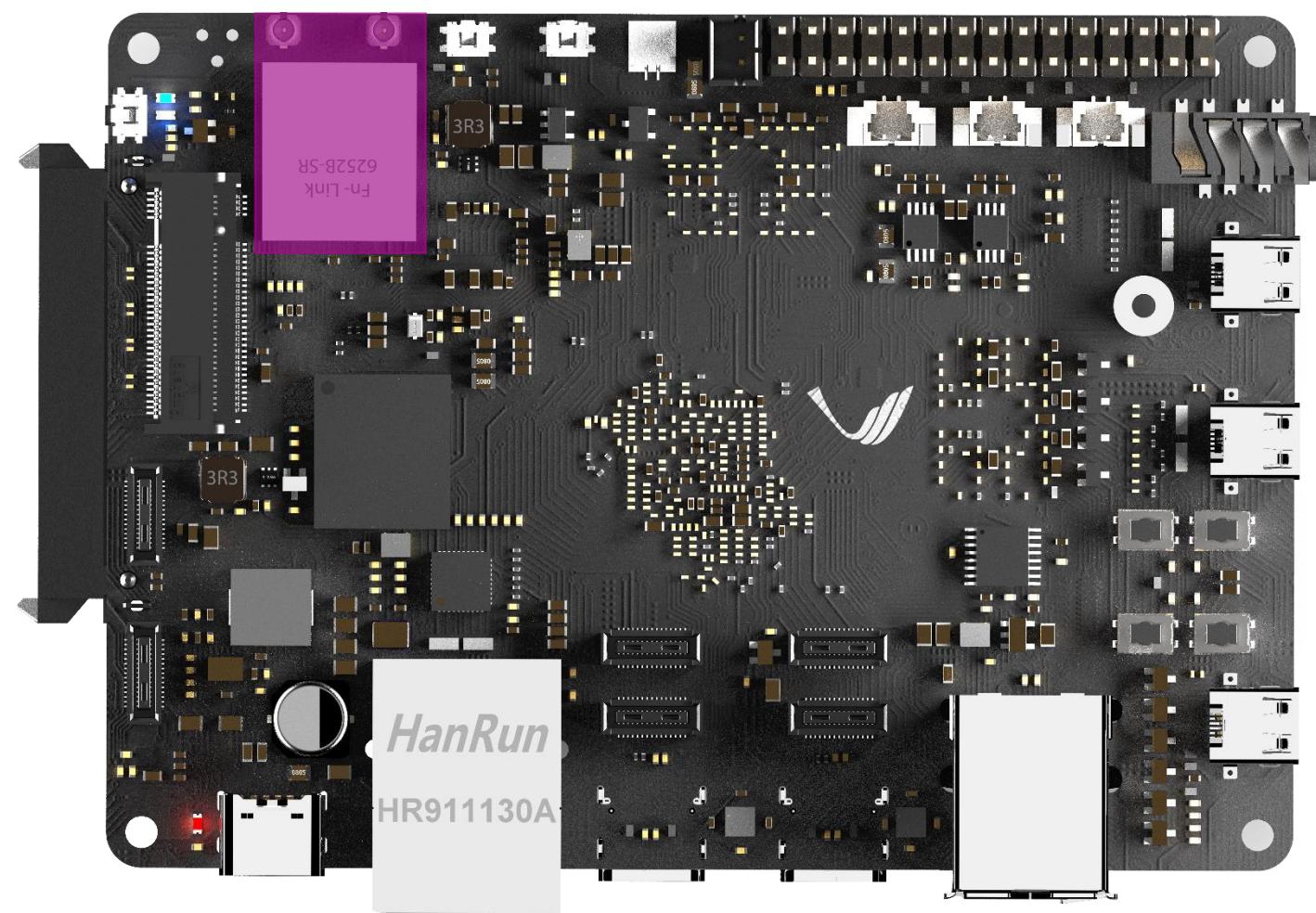
**Reset  
Key**



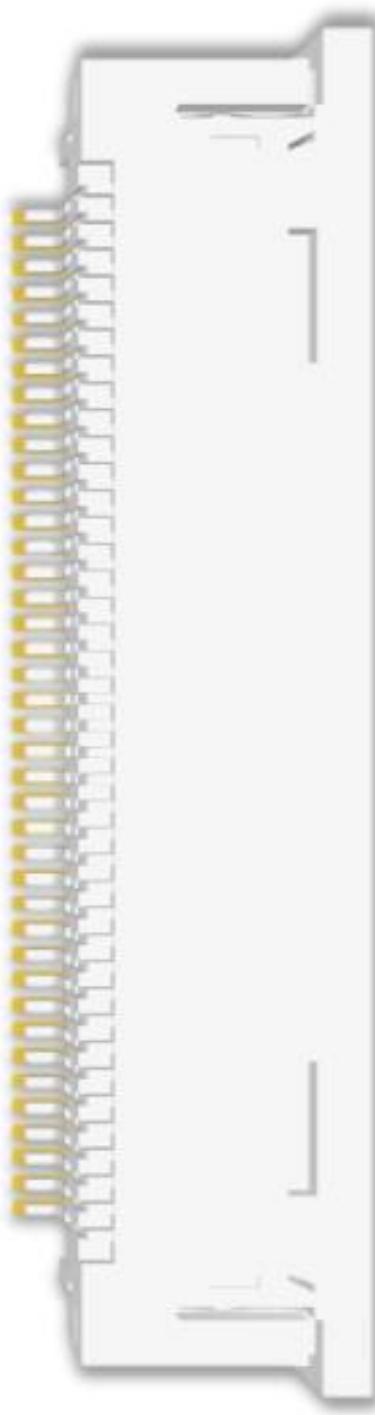
WIFI      WIFI/BT



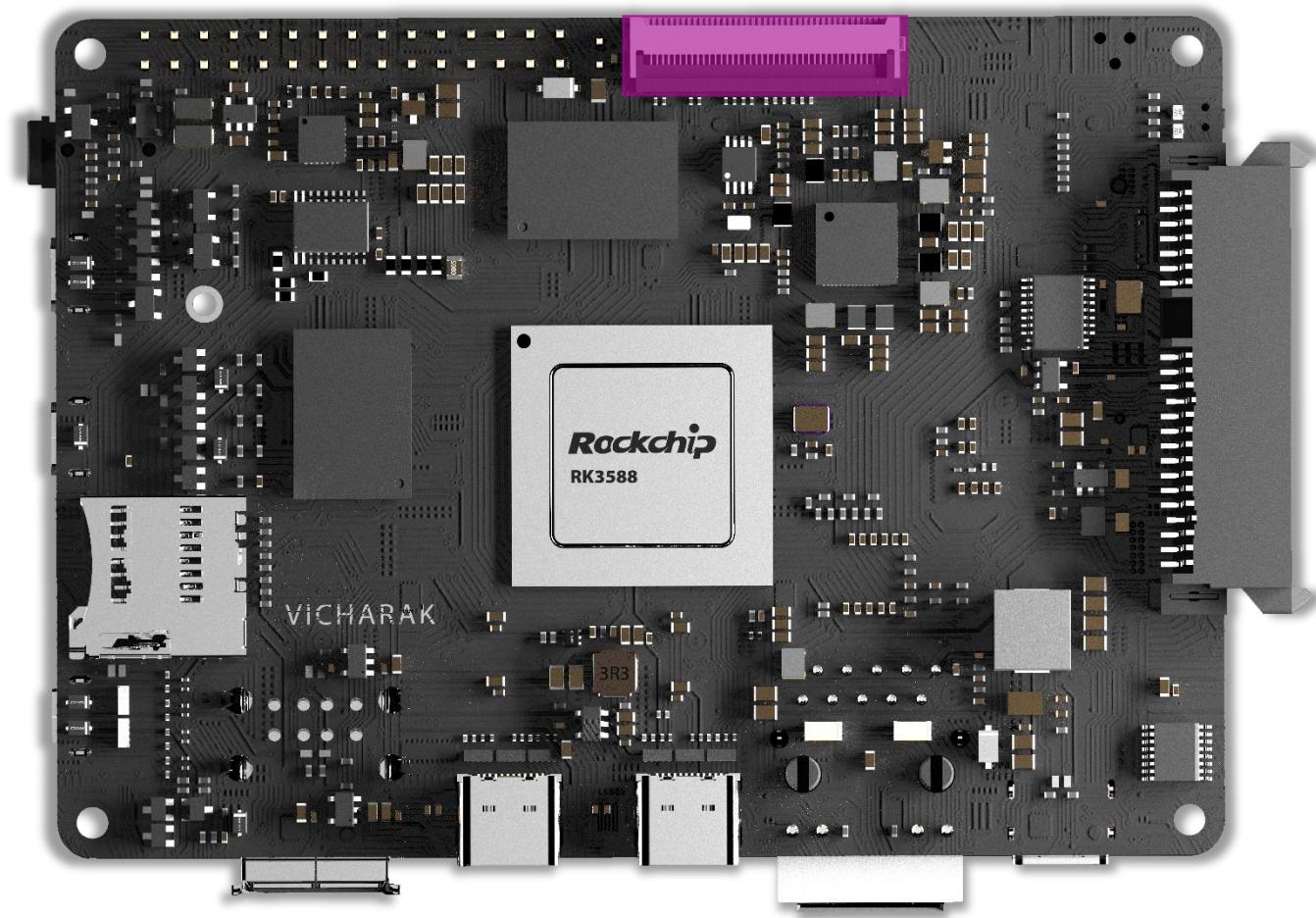
6252B-SR Wifi6 BT5.2 Module



## 21 PCIE GEN/SATA3.0 FPC CONNECTOR



01	GND
02-07	VCC_3.3V
08-12	GND
13	PCIE_PWREN_H
14	GND
15	PCIEx1_1_CLKREQn_M1_L
16	PCIEx1_1_WAKEn_M1_L
17	PCIEx1_1_PERSTn_M1_L
18	GND
19	PCIEx1_2_CLKREQn_M1_L
20	PCIEx1_2_WAKEn_M1_L
21	PCIEx1_2_PERSTn_M1_L
22	GND
23	PCIE20_1_TX/SATA30_1_RX_P
24	PCIE20_1_RX/SATA30_1_RX_N
25	GND
26	PCIE20_1_RX/SATA30_1_RX_P
27	PCIE20_1_RX/SATA30_1_RX_N
28	GND
29	PCIE20_1_REFCLK_P
30	PCIE20_1_REFCLK_N
31	GND
32	PCIE20_2_RX/SATA30_2_RX_P
33	PCIE20_2_RX/SATA30_2_RX_N
34	GND
35	PCIE20_2_TX/SATA30_2_TX_P
36	PCIE20_2_TX/SATA30_2_TX_N
37	GND
38	PCIE20_2_REFCLK_P
39	PCIE20_2_REFCLK_N
40	GND



## PCIe2.0/SATA3.0 FPC Connector

FPC Connector

40 Pin

0.5mm Pitch

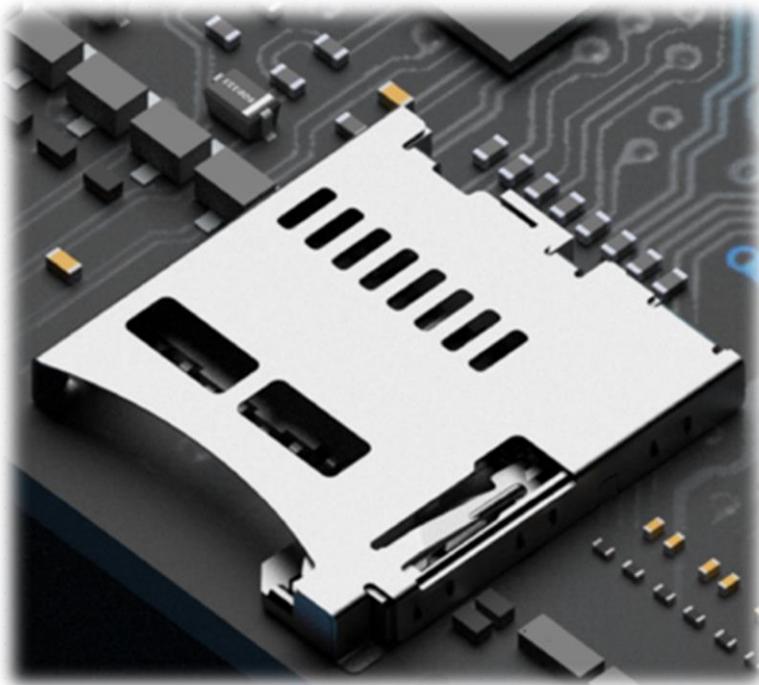
MPN : FPC-05FB-40PH20

FPC Cable

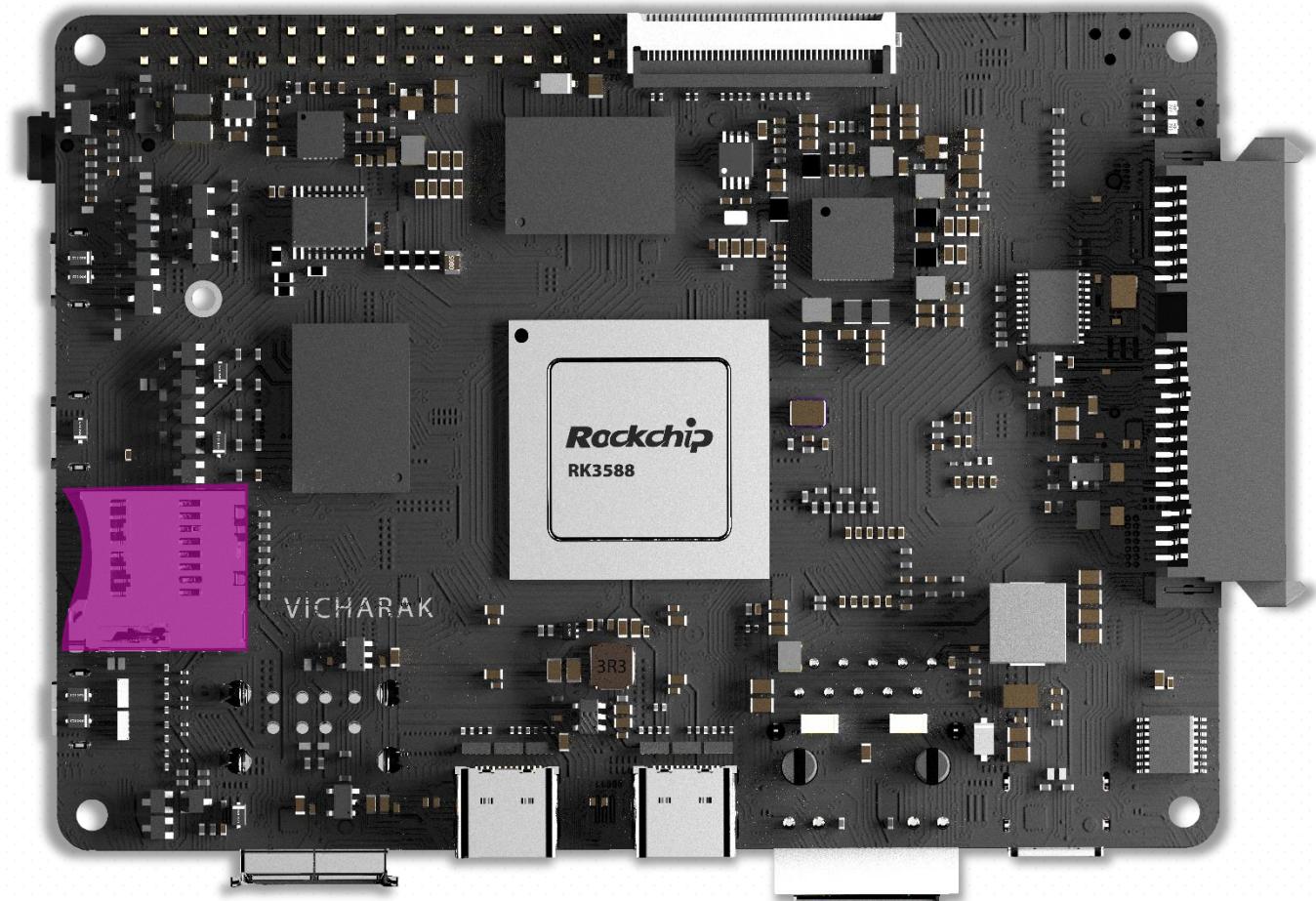
40 Pin

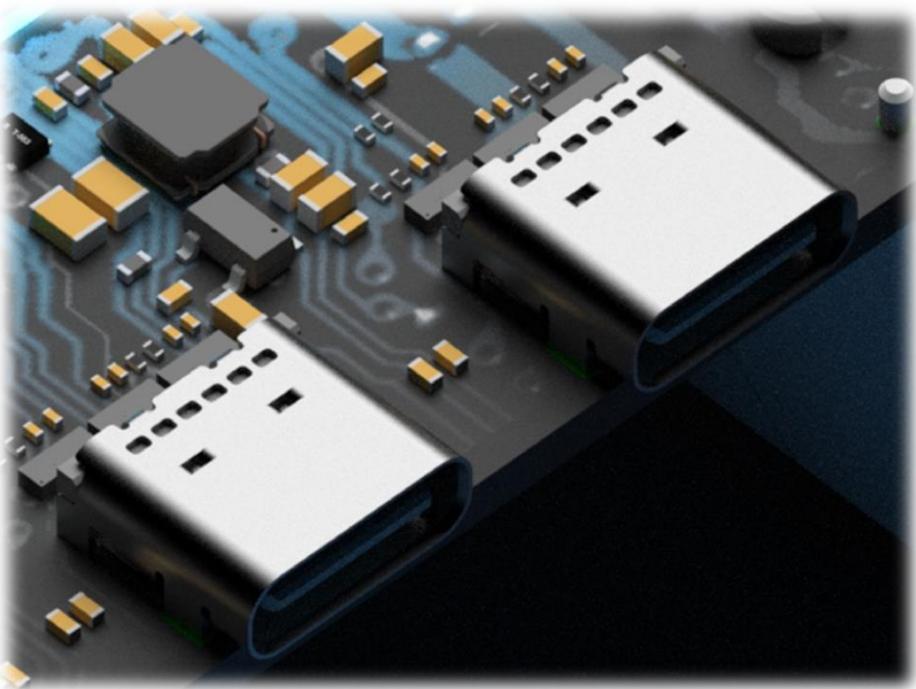
0.5mm Pitch

Impedance 85 Ohm

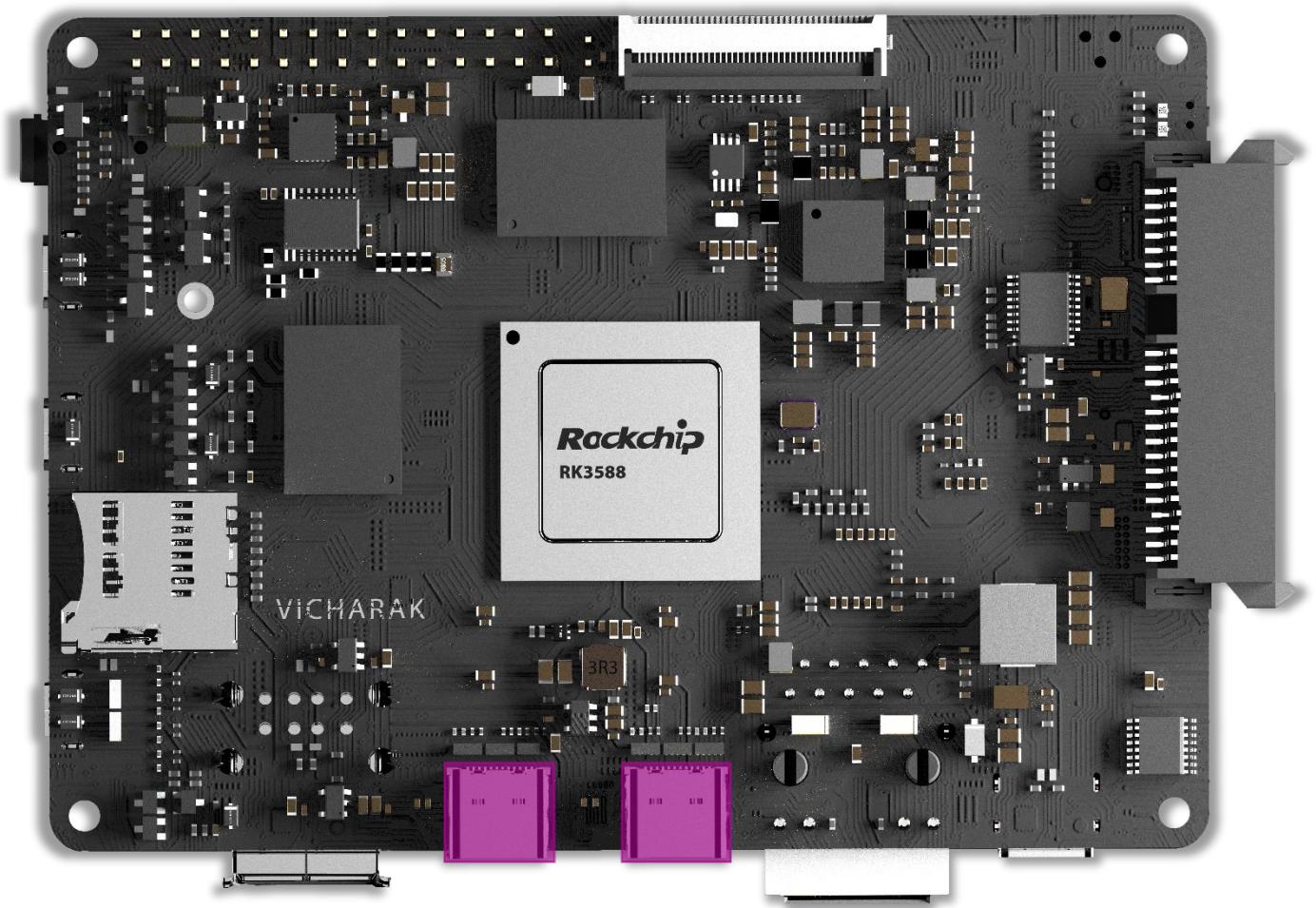


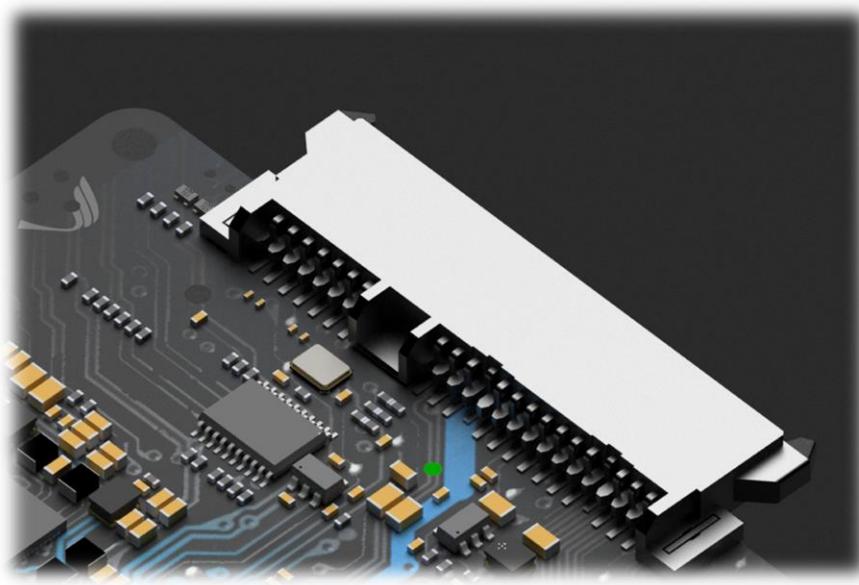
**Push-Push Type MicroSD Card Slot**





**TYPE-C Alt Display Port**





**22 Pin SATA Connector  
SATA 3.0**

