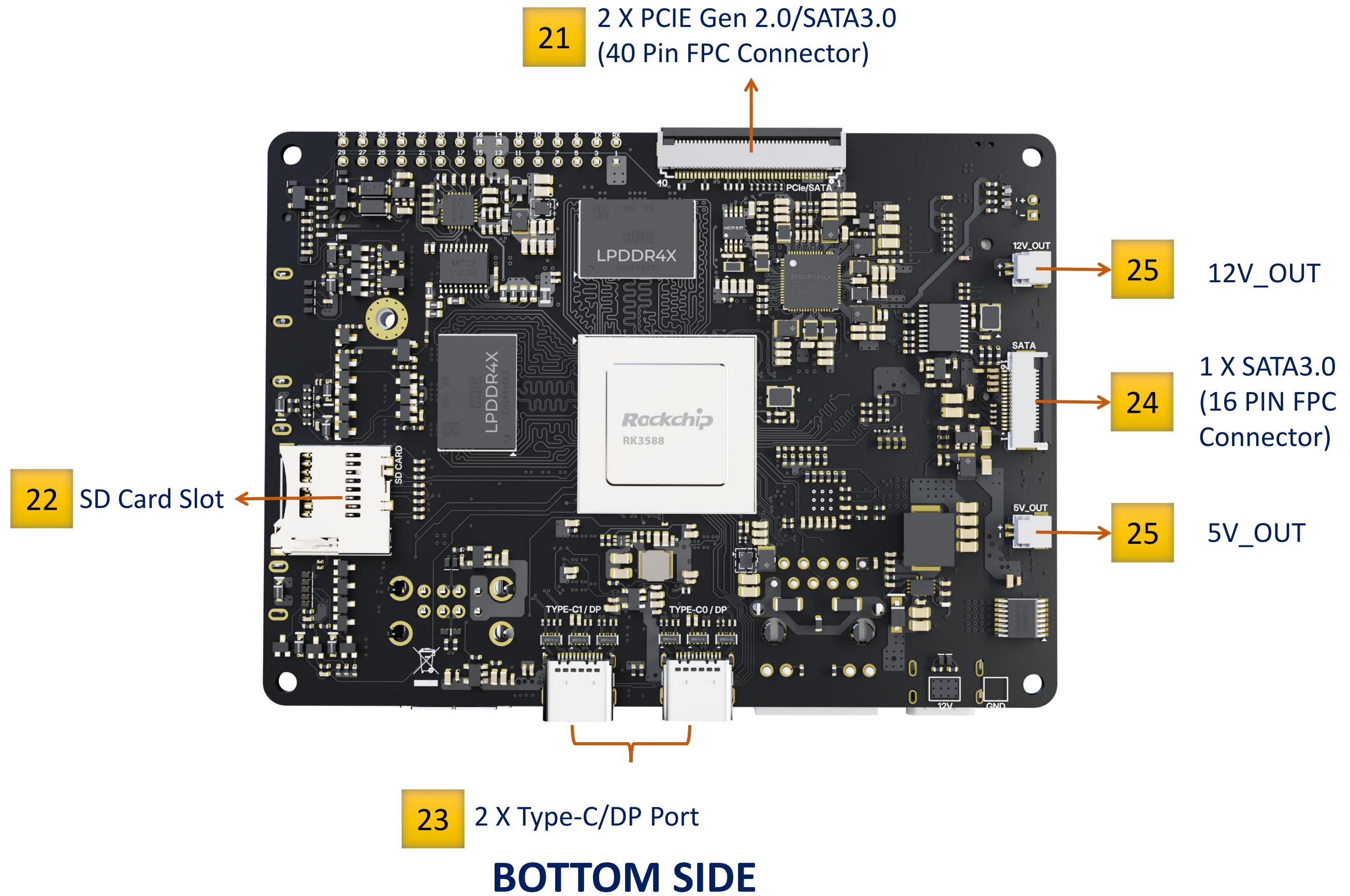
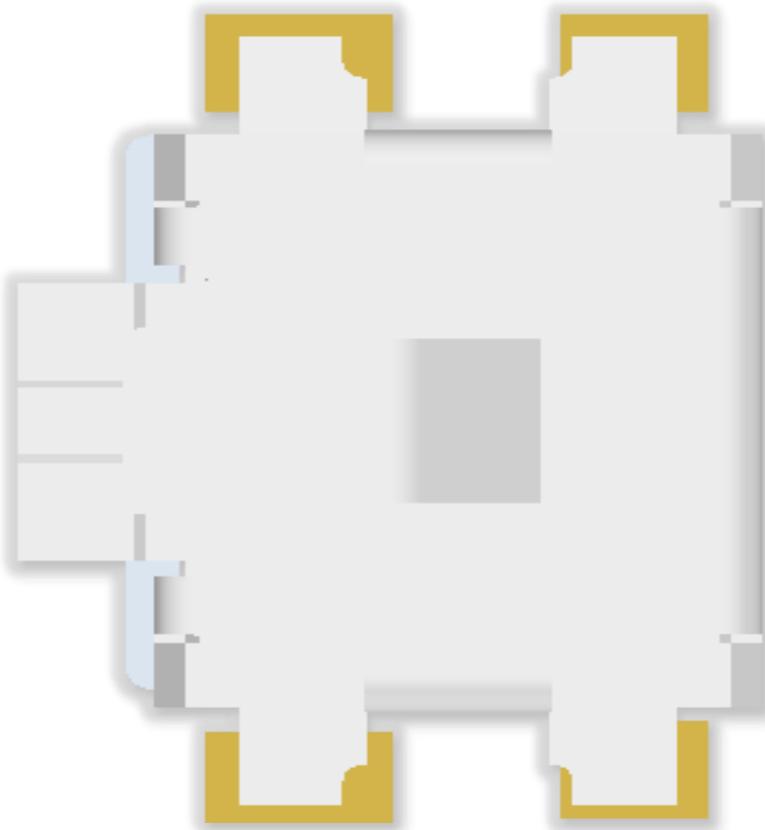


**TOP SIDE**

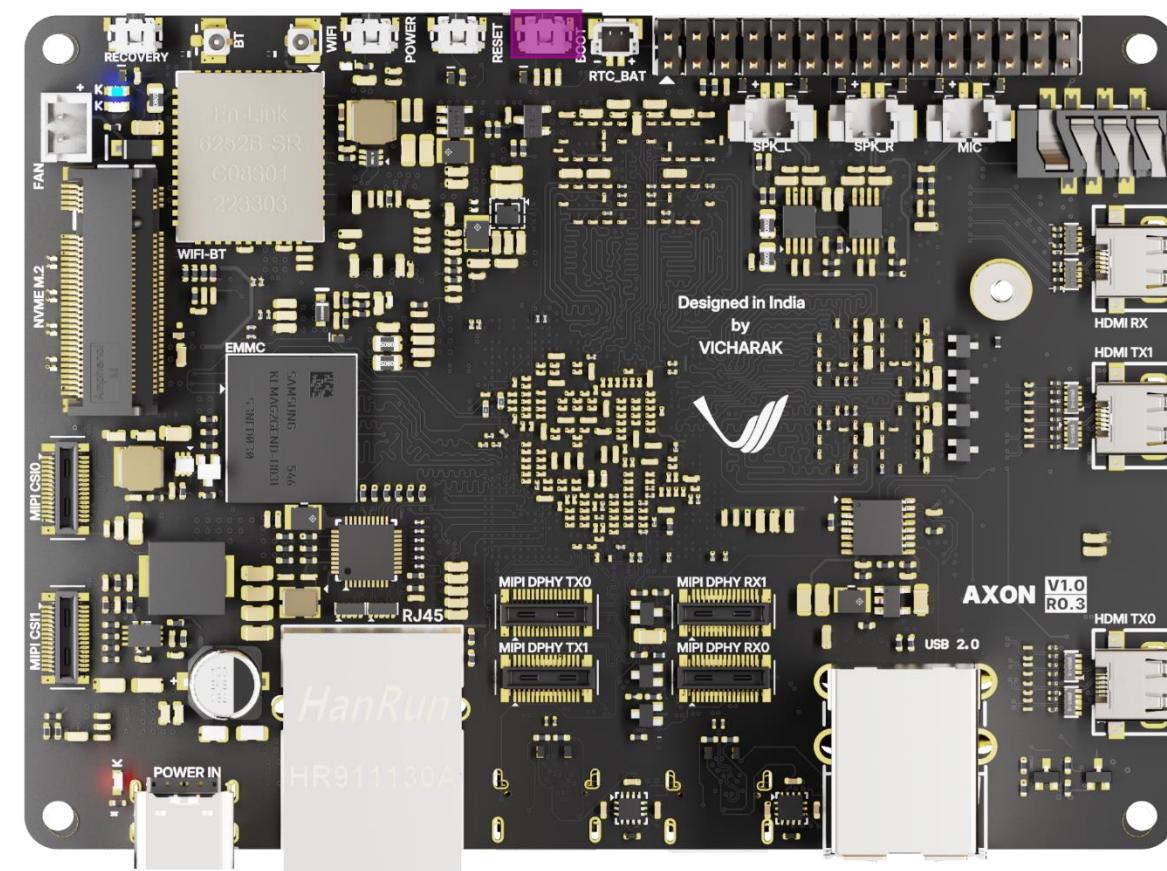


**BOTTOM SIDE**

# 01 Maskrom key

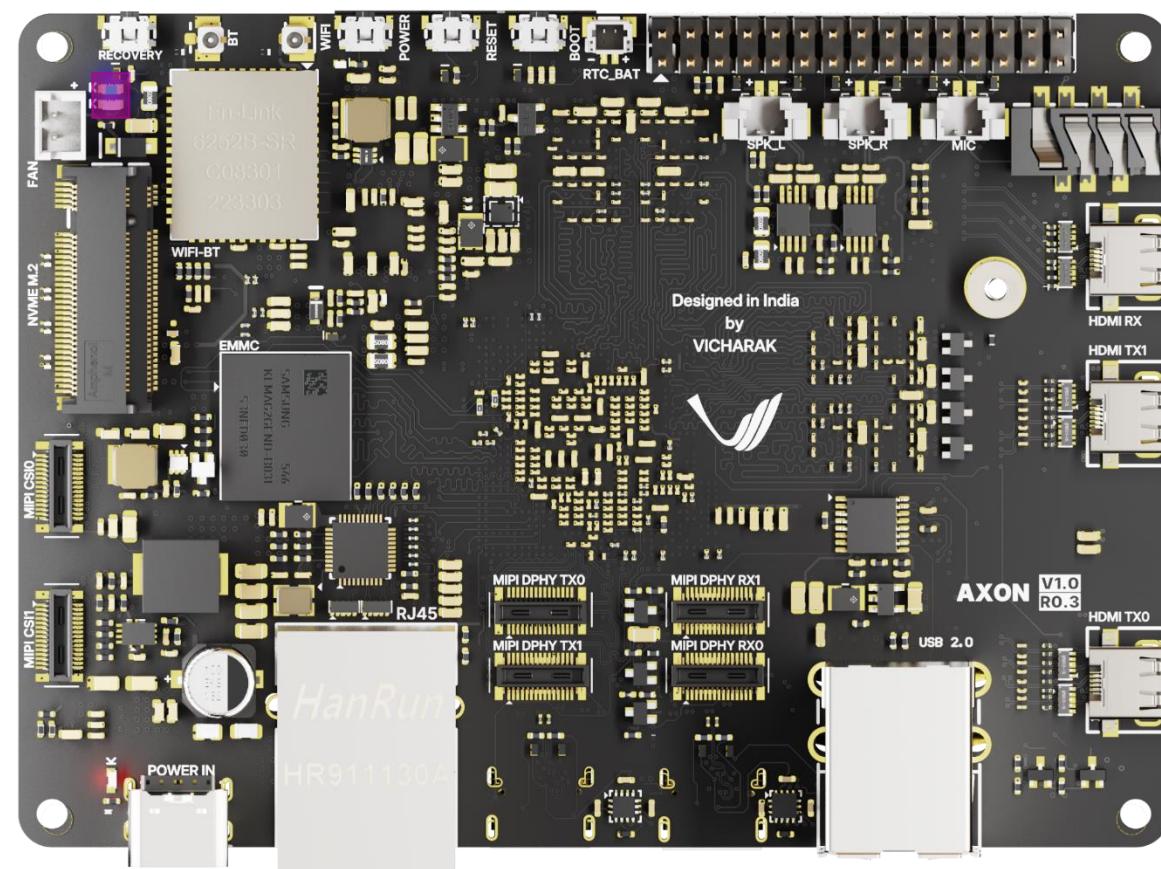


**Maskrom Key**





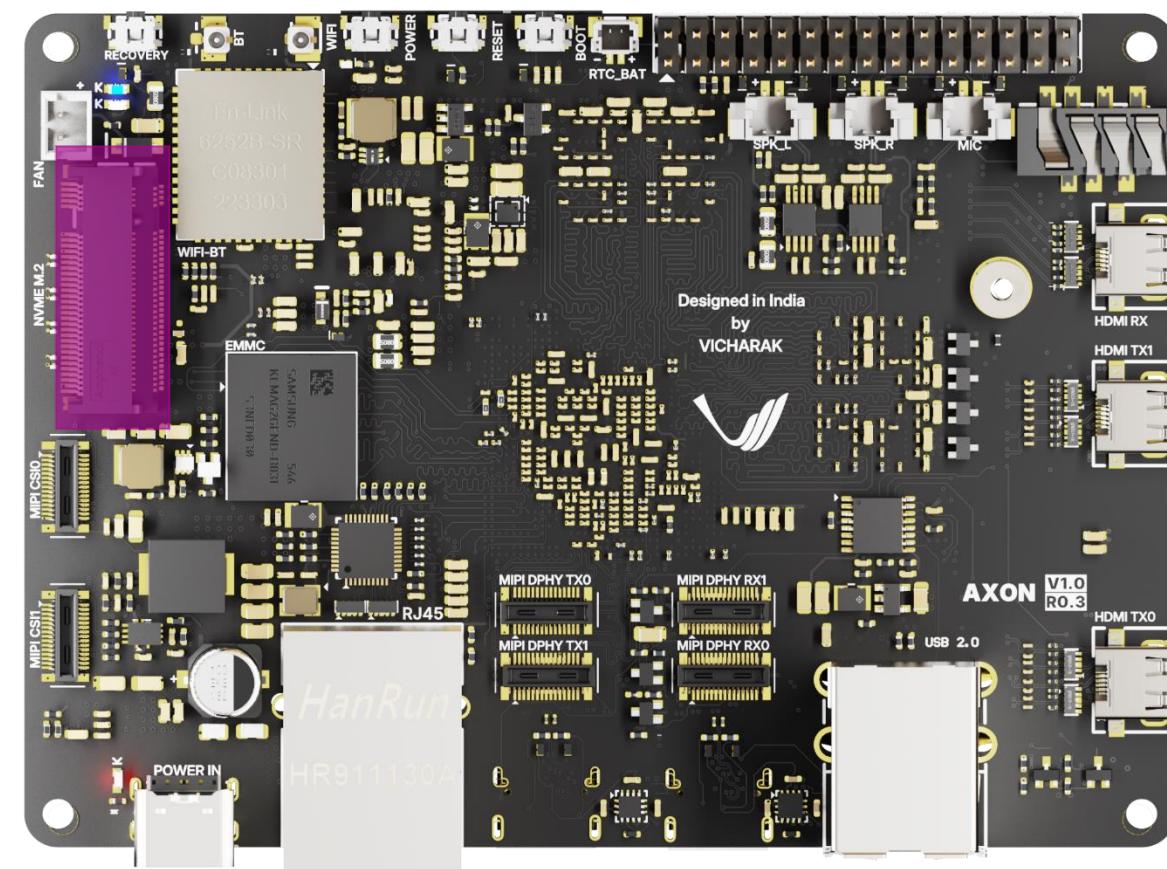
**Status LED**  
**USER LED**

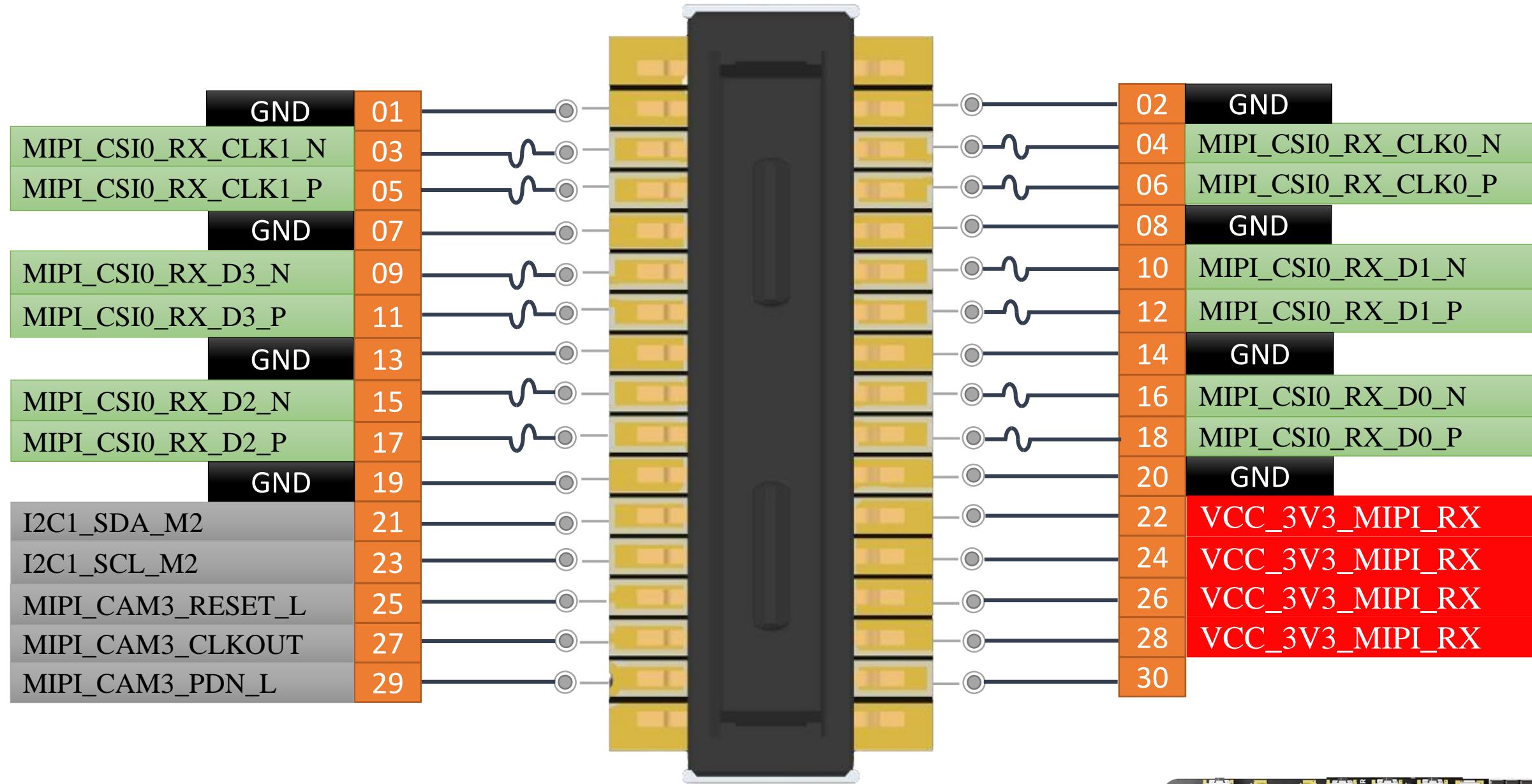


### 03 NVME M.2 M-key Connector



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





On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

MPN : DF40C(2.0)-30DP-0.4V(51)

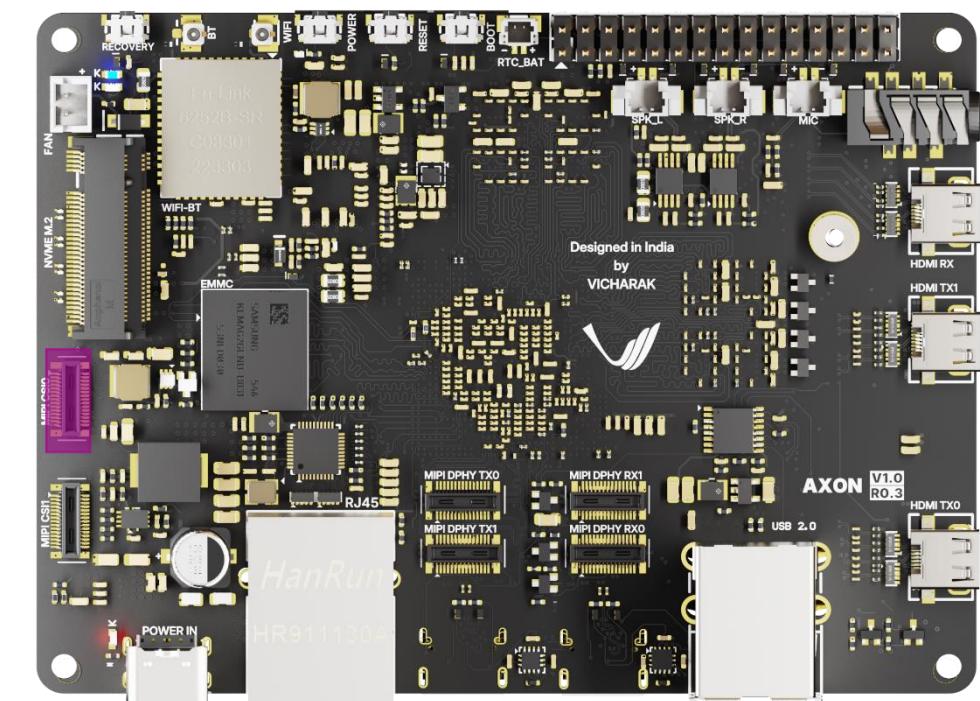
Mating Connector

30 Pin

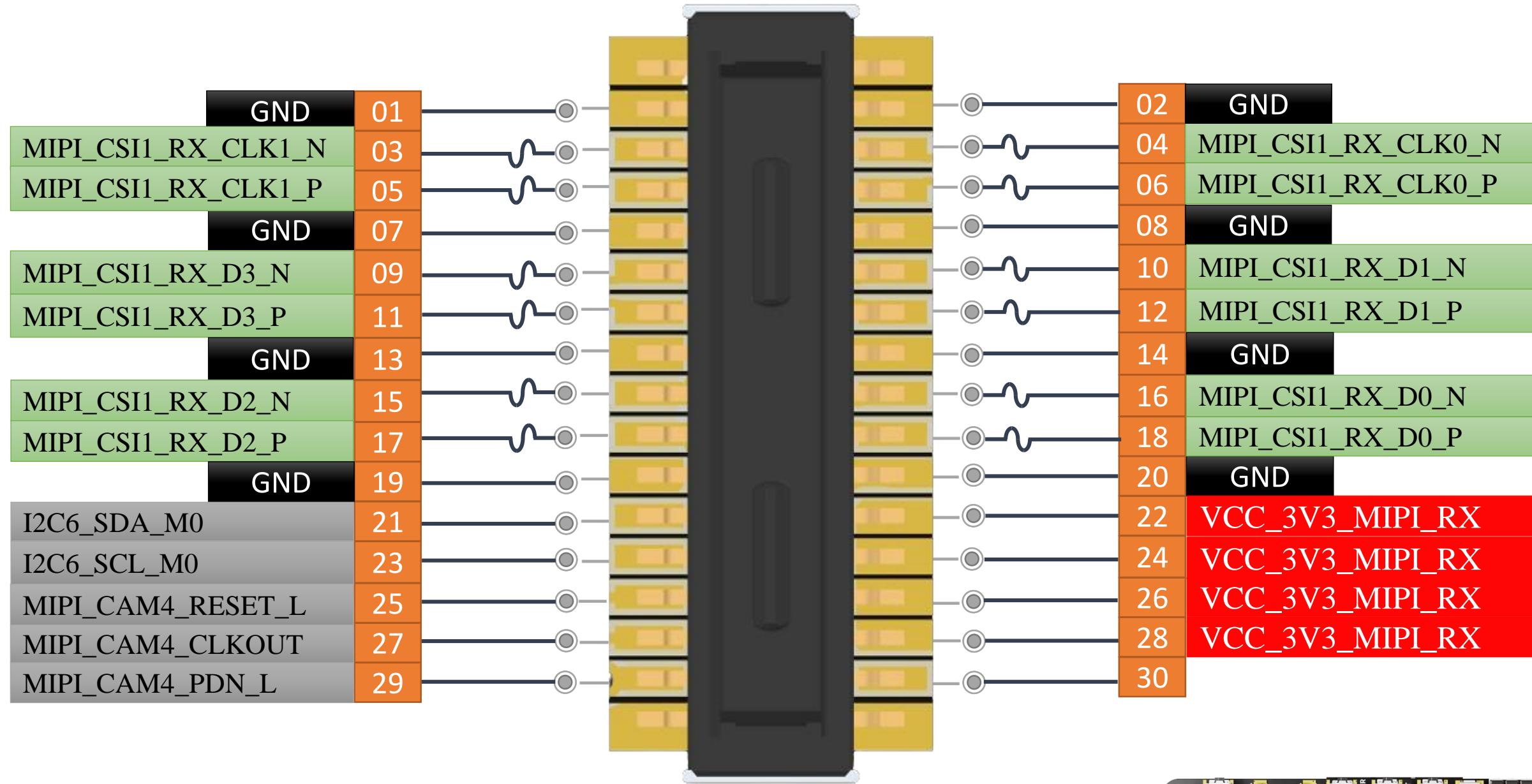
0.4mm Pitch

MPN : DF40C(2.0)-30DS-0.4V(51)

## MIPI CSI RX0



## 05 MIPI CSI RX PORT1



On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

MPN : DF40C(2.0)-30DP-0.4V(51)

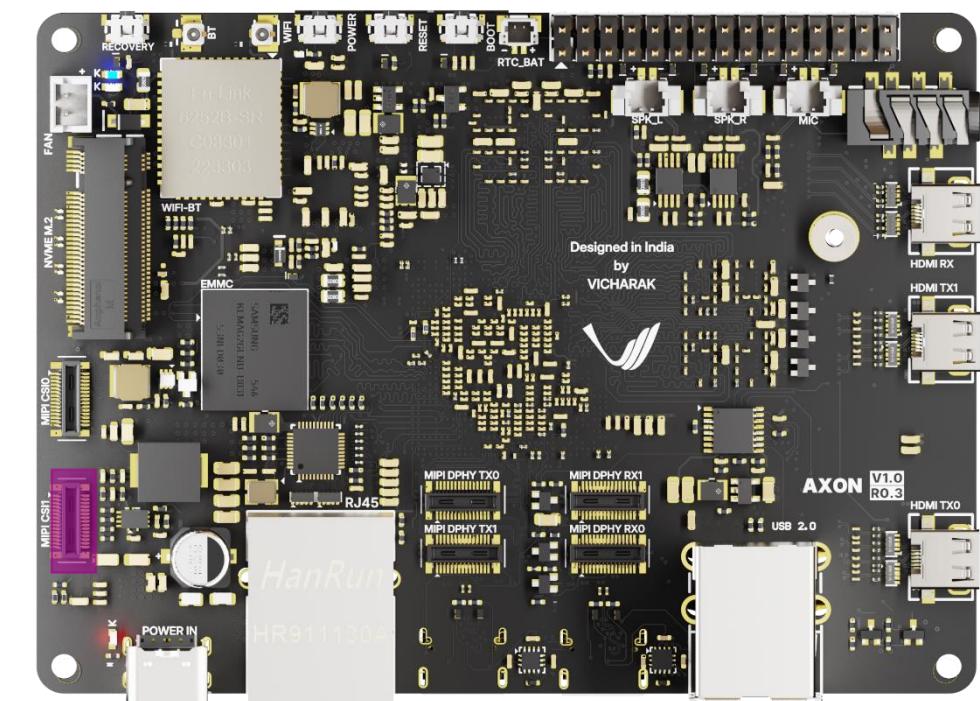
Mating Connector

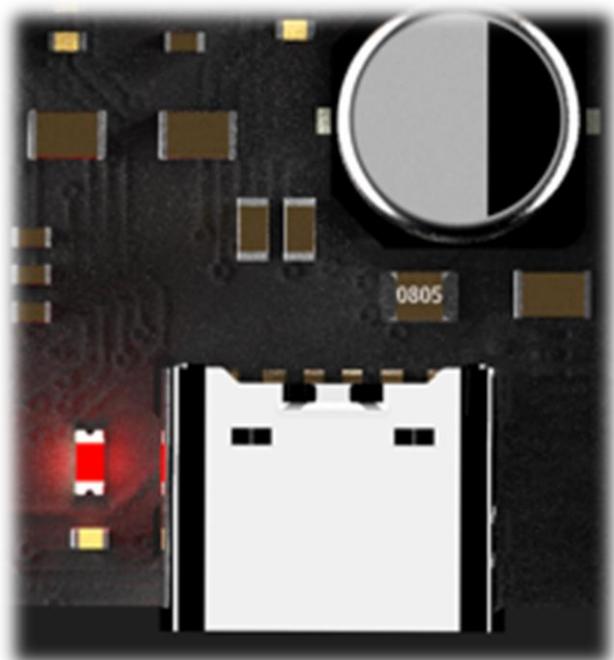
30 Pin

0.4mm Pitch

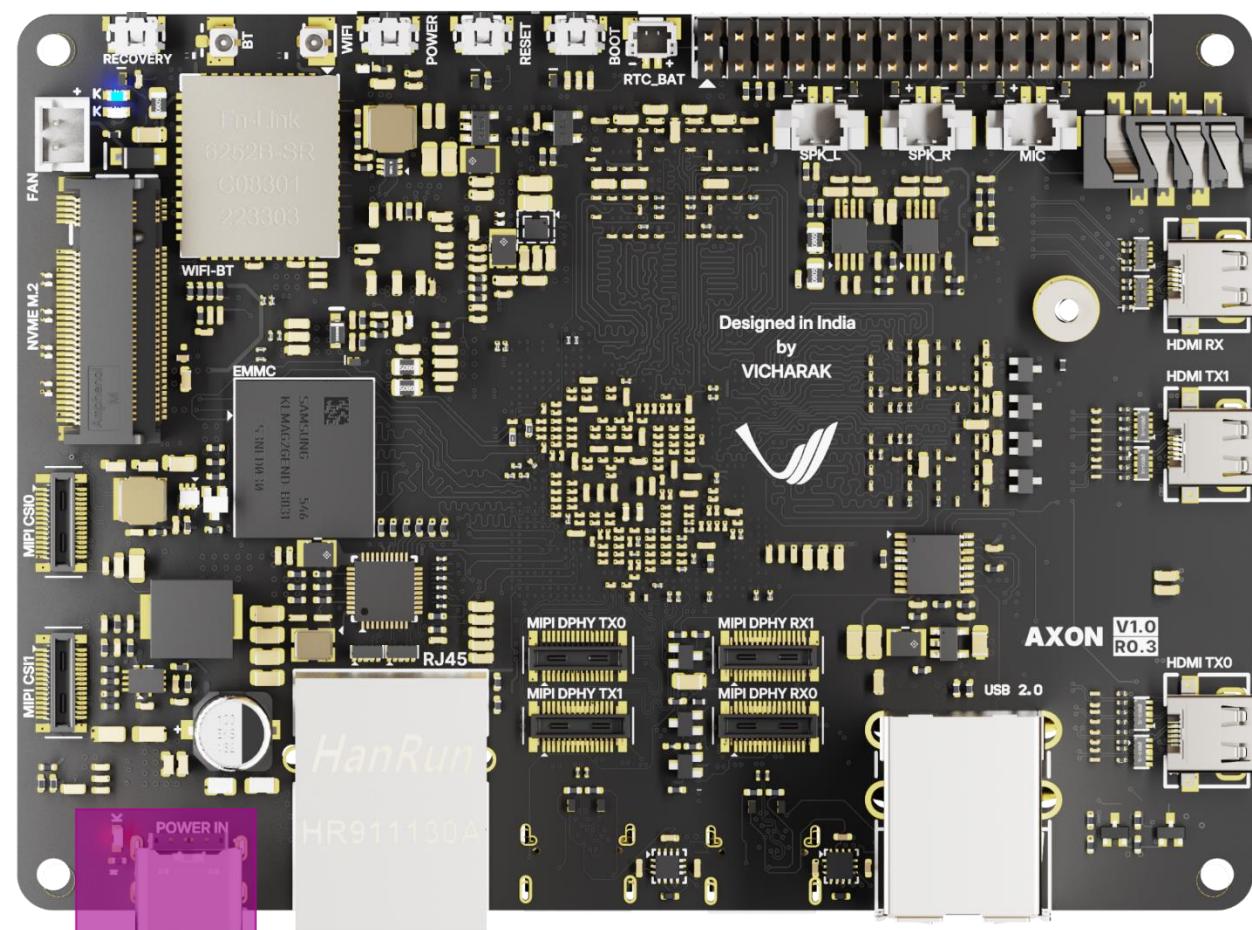
MPN : DF40C(2.0)-30DS-0.4V(51)

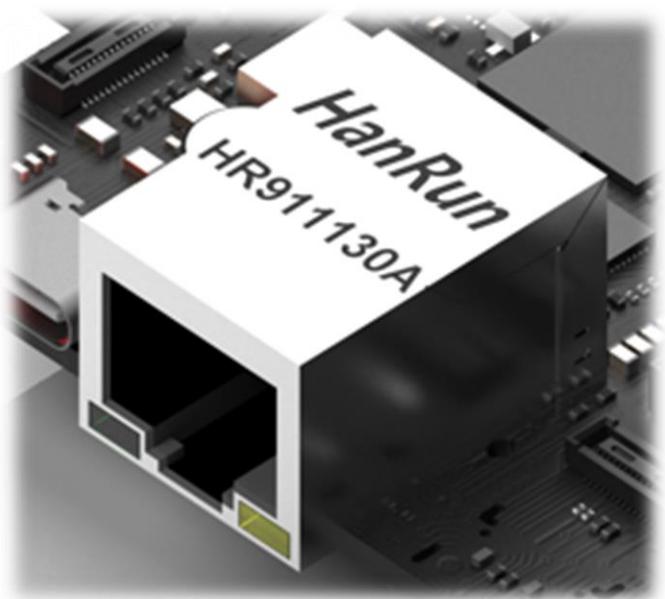
# MIPI CSI RX1



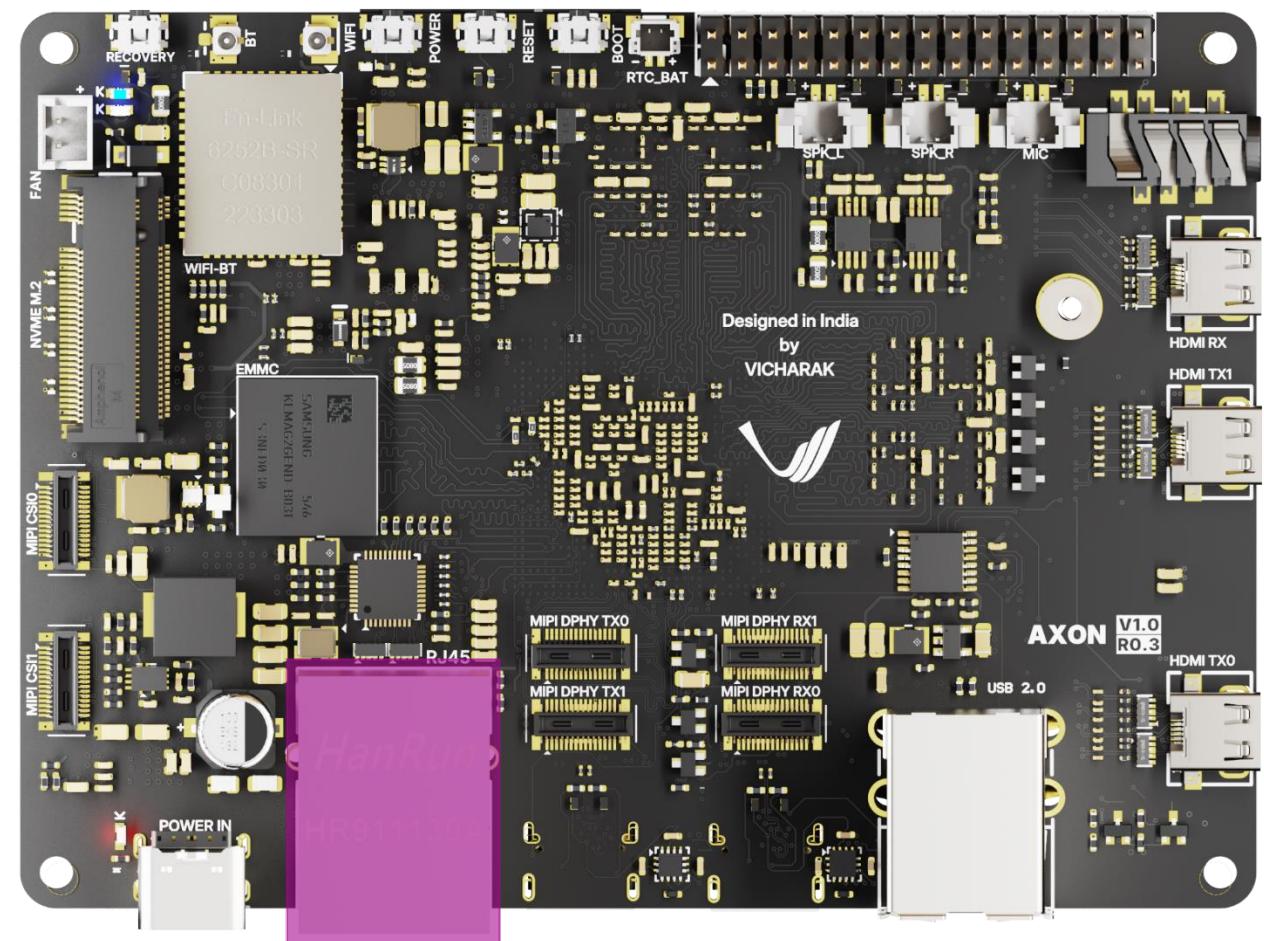


Type-C Power Input  
(12VDC-5A)

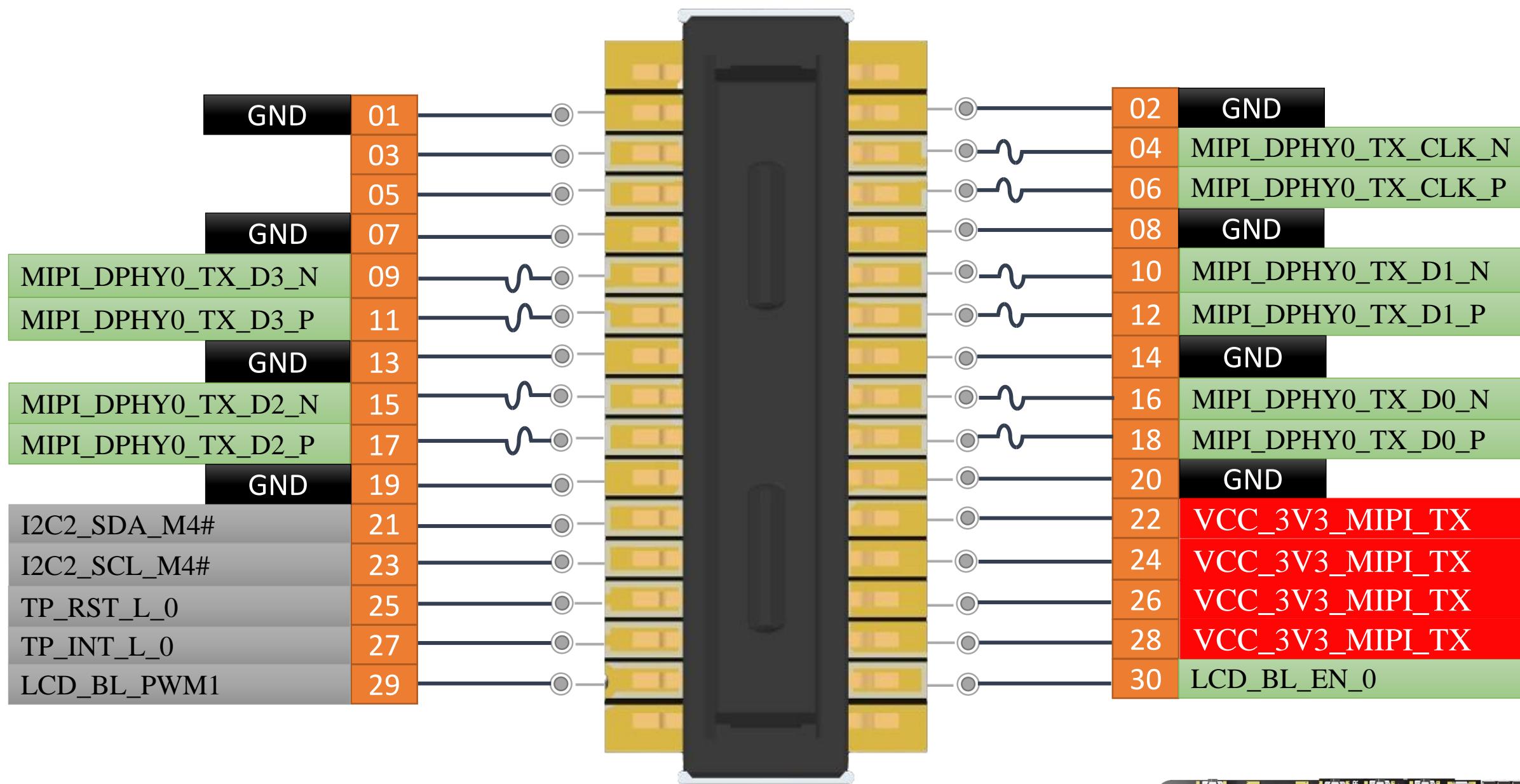




**ETHERNET**  
**(10/100/1000Mbps)**



## 08 MIPI D-PHY TX PORT0



On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

MPN : DF40C(2.0)-30DP-0.4V(51)

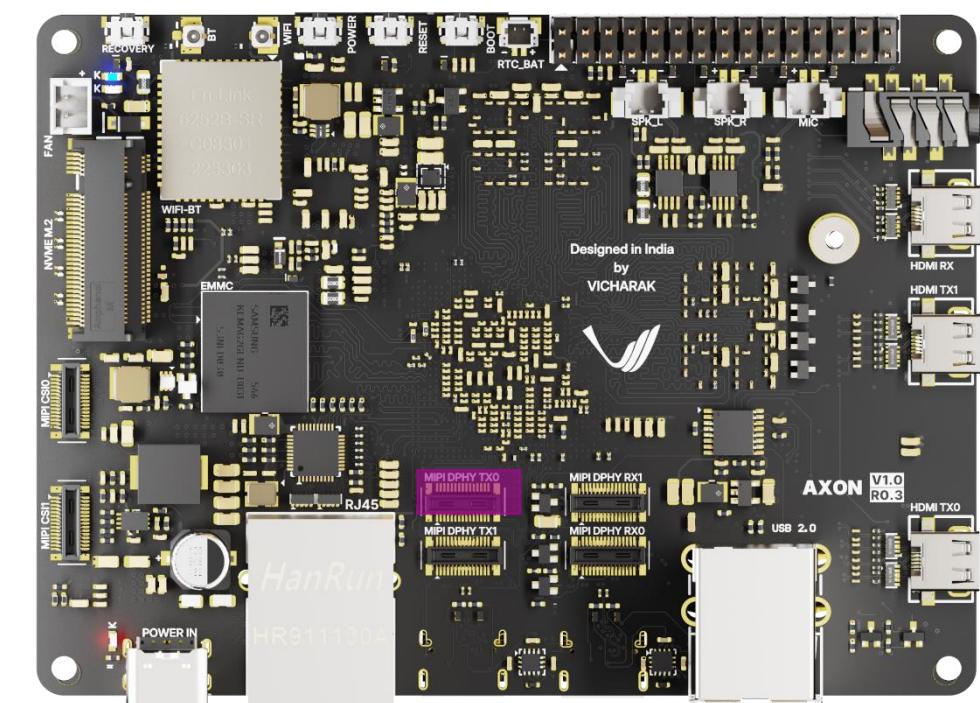
Mating Connector

30 Pin

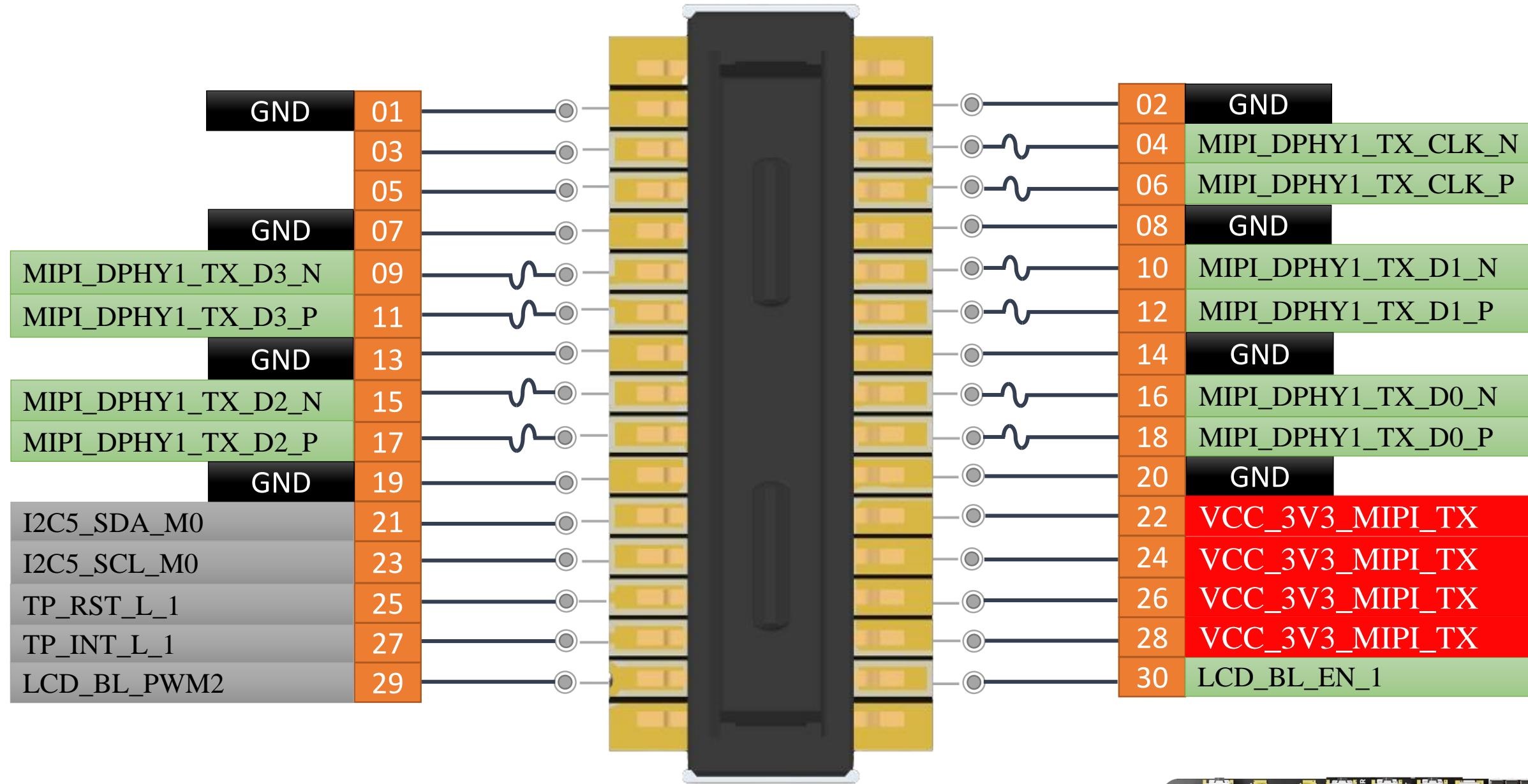
0.4mm Pitch

MPN : DF40C(3.5)-30DS-0.4V(51)

## MIPI D-PHY0 TX



## 09 MIPI D-PHY TX PORT1



On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

MPN : DF40C(2.0)-30DP-0.4V(51)

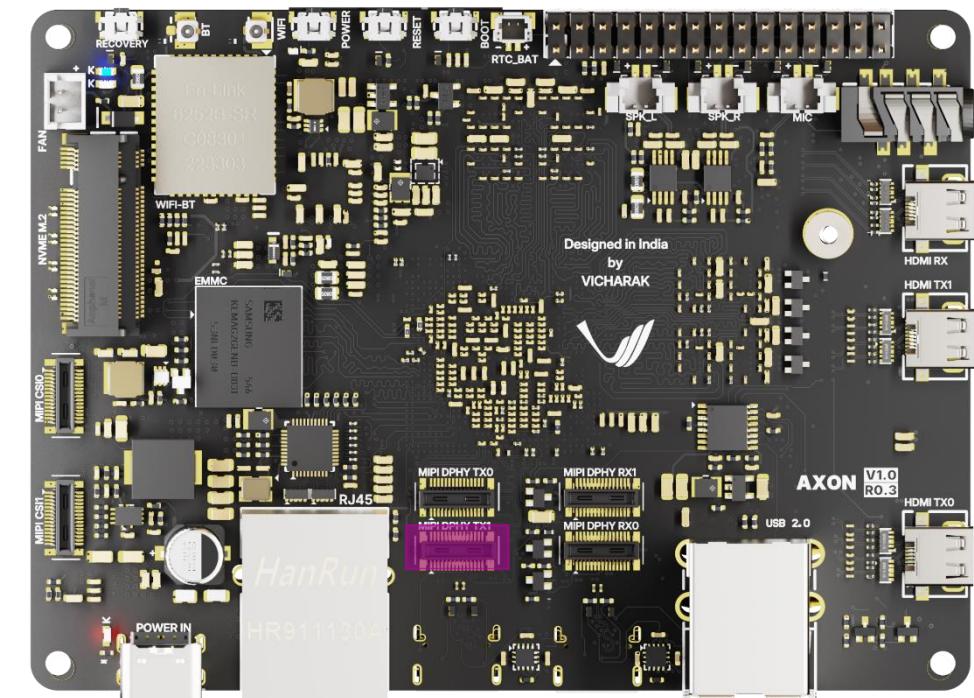
Mating Connector

30 Pin

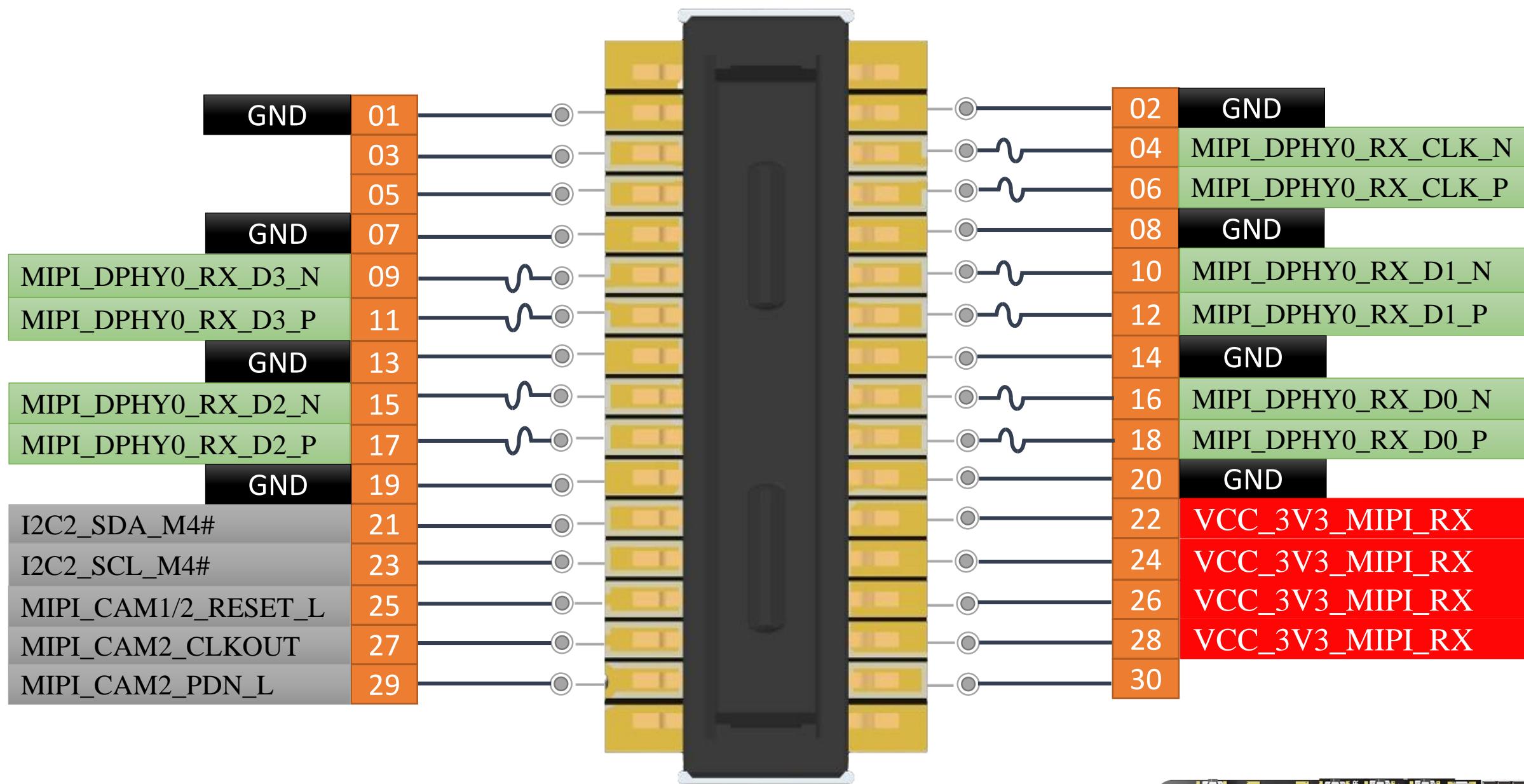
0.4mm Pitch

MPN : DF40C(2.0)-30DS-0.4V(51)

## MIPI D-PHY1 TX



## 10 MIPI D-PHY RX PORT0



On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

MPN : DF40C(2.0)-30DP-0.4V(51)

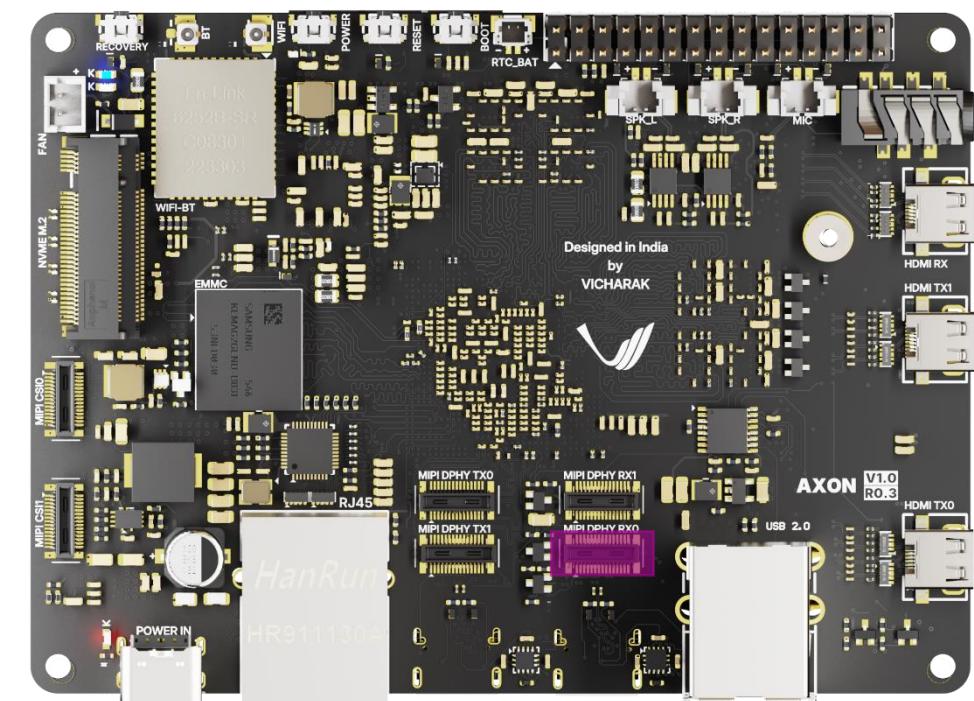
Mating Connector

30 Pin

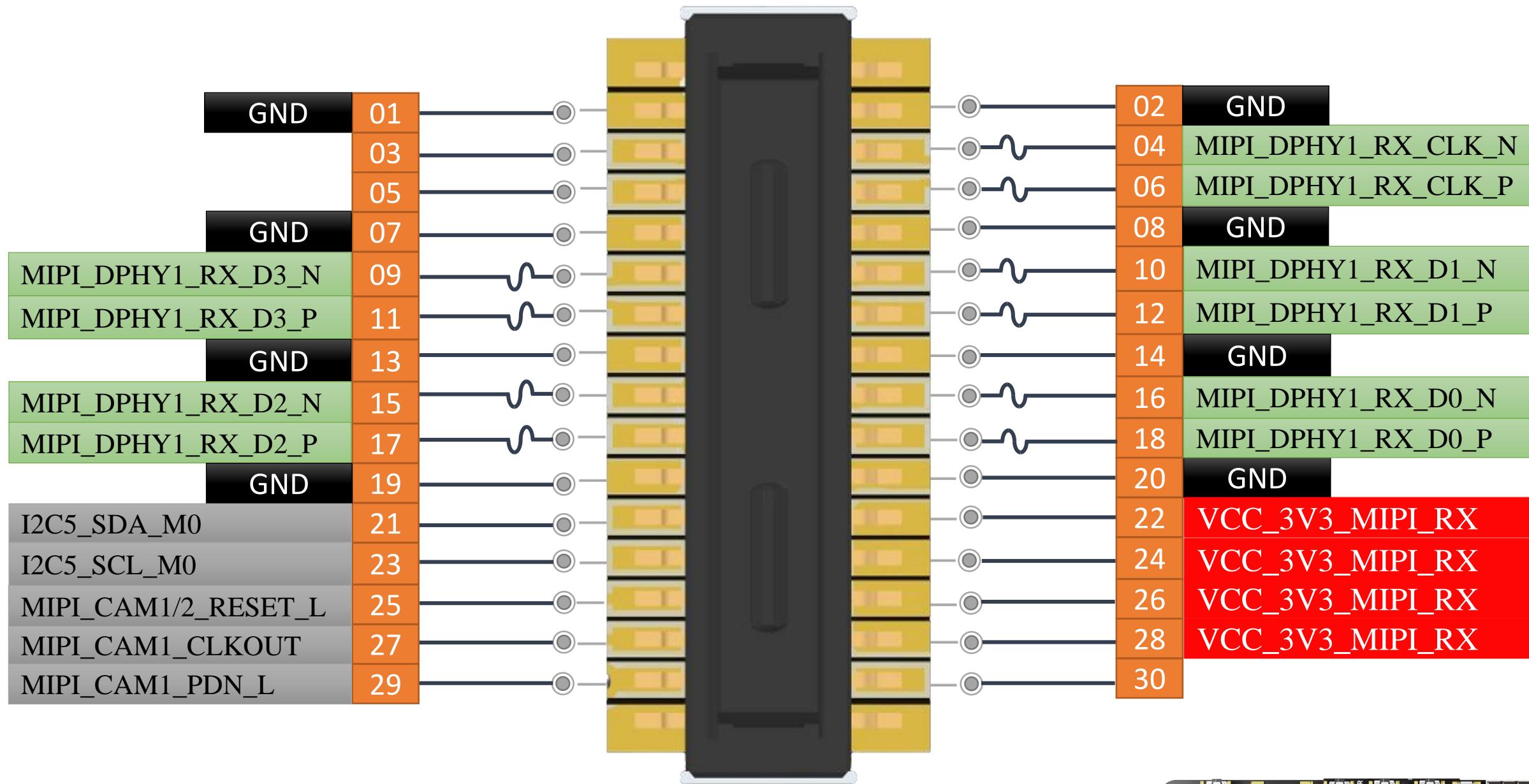
0.4mm Pitch

MPN : DF40C(2.0)-30DS-0.4V(51)

## MIPI D-PHY0 RX



## 11 MIPI D-PHY RX PORT1



On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

MPN : DF40C(2.0)-30DP-0.4V(51)

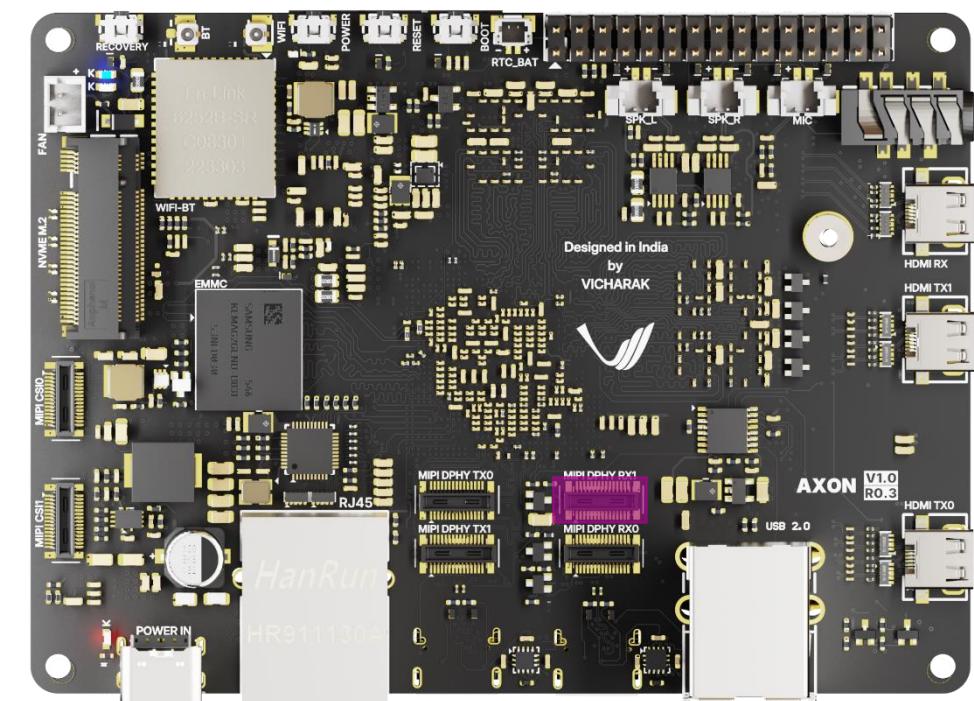
Mating Connector

30 Pin

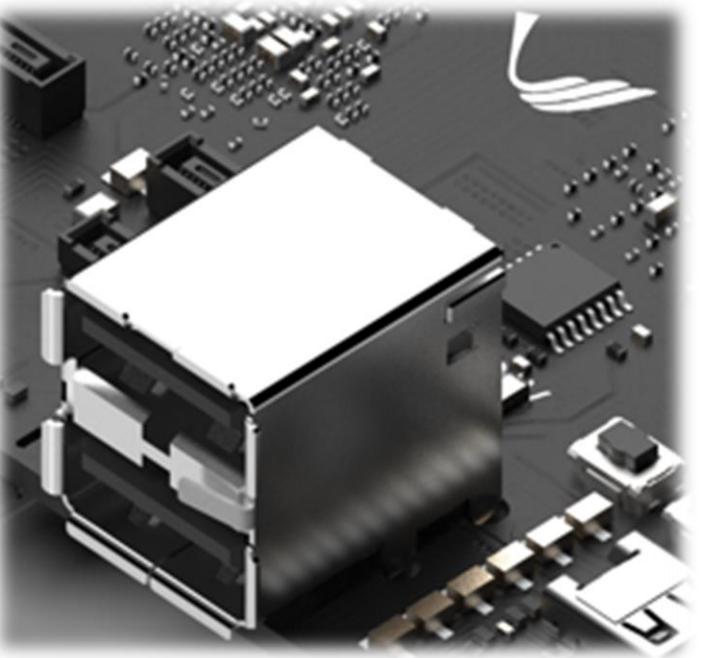
0.4mm Pitch

MPN : DF40C(3.5)-30DS-0.4V(51)

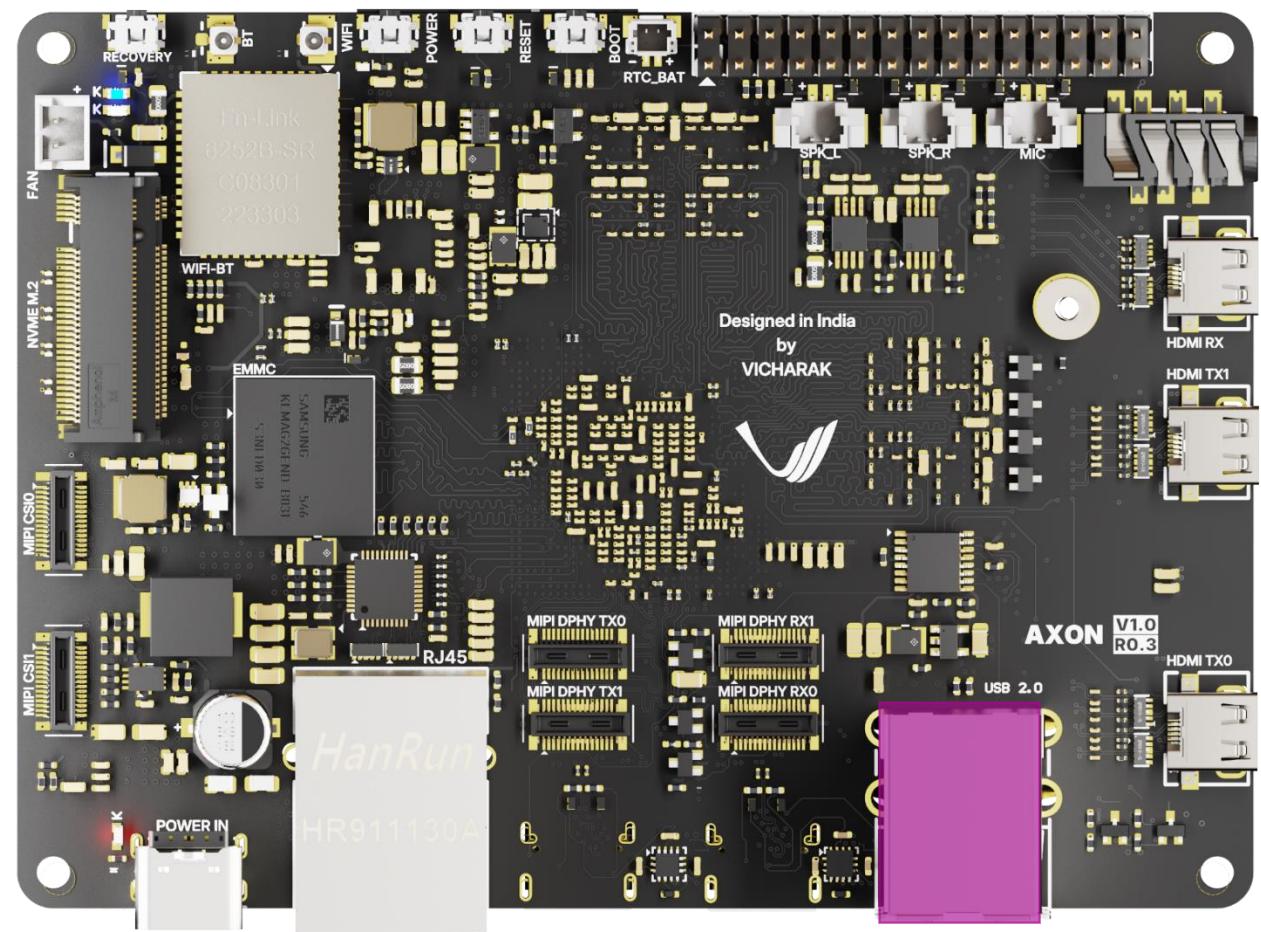
## MIPI D-PHY1 RX

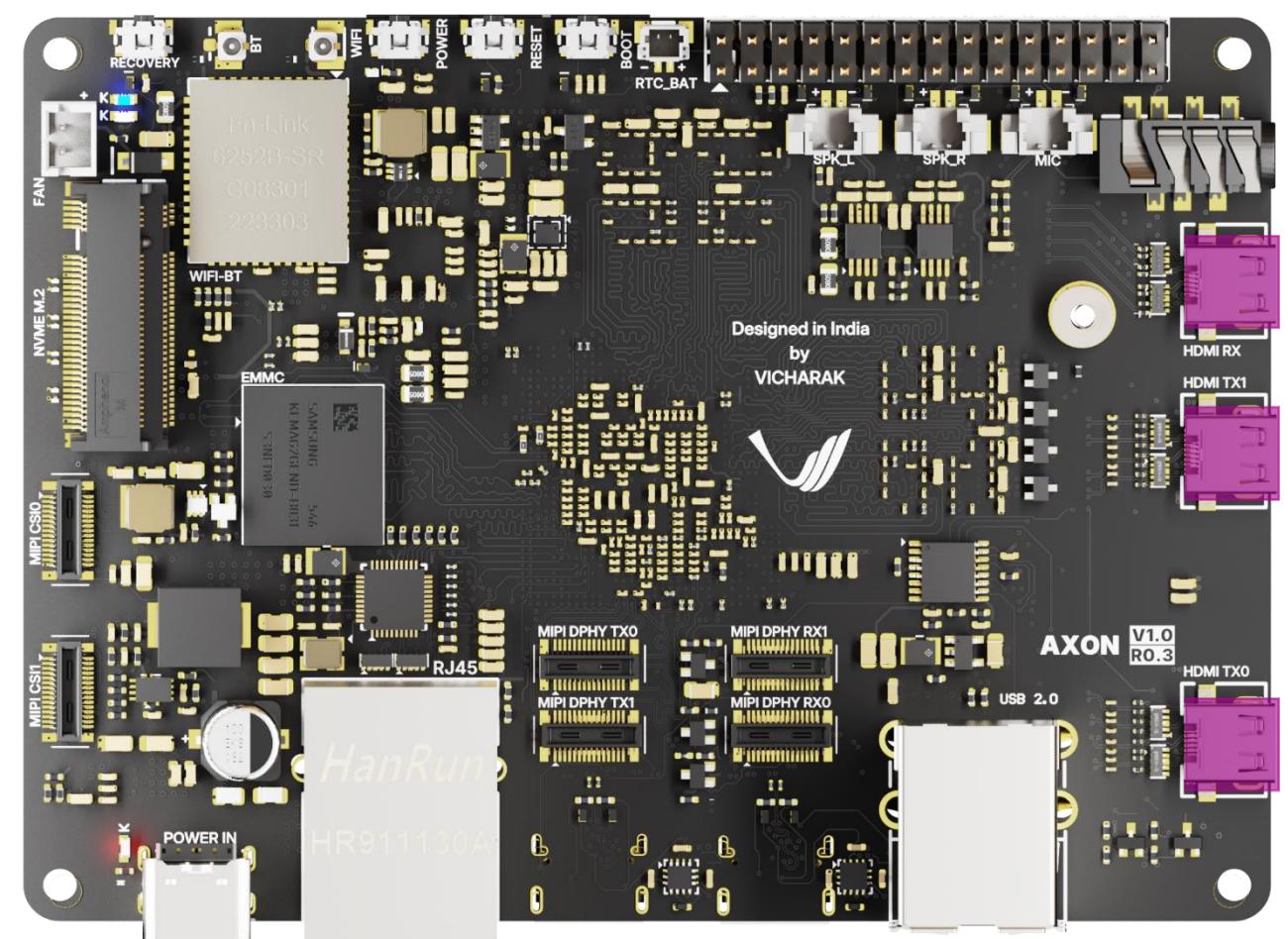
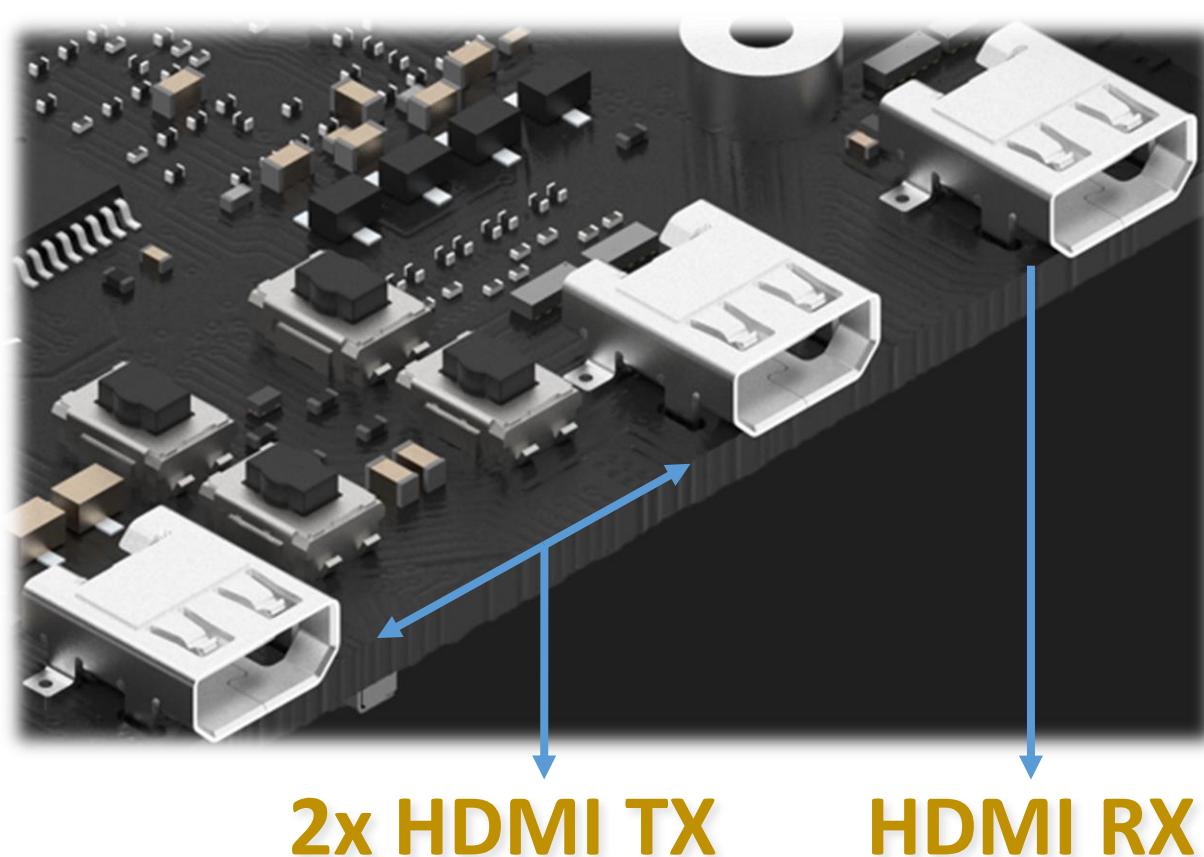


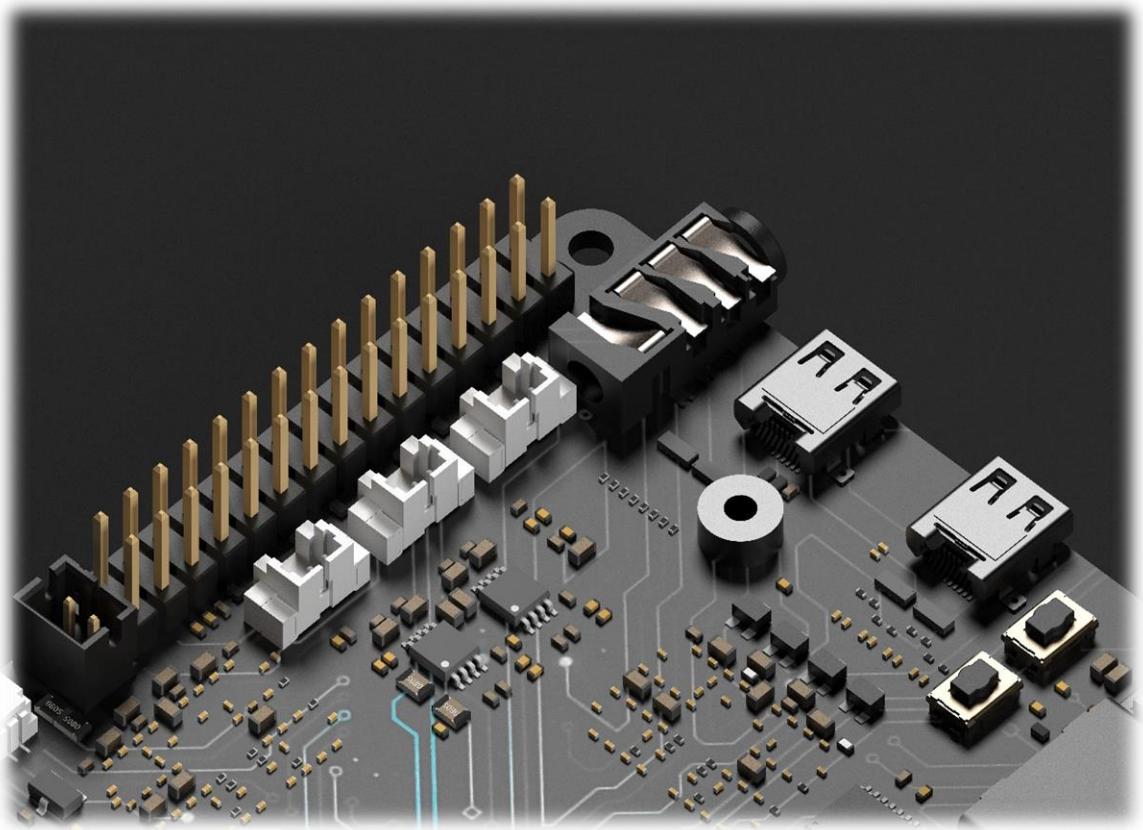
## 12 Dual USB2.0 HOST



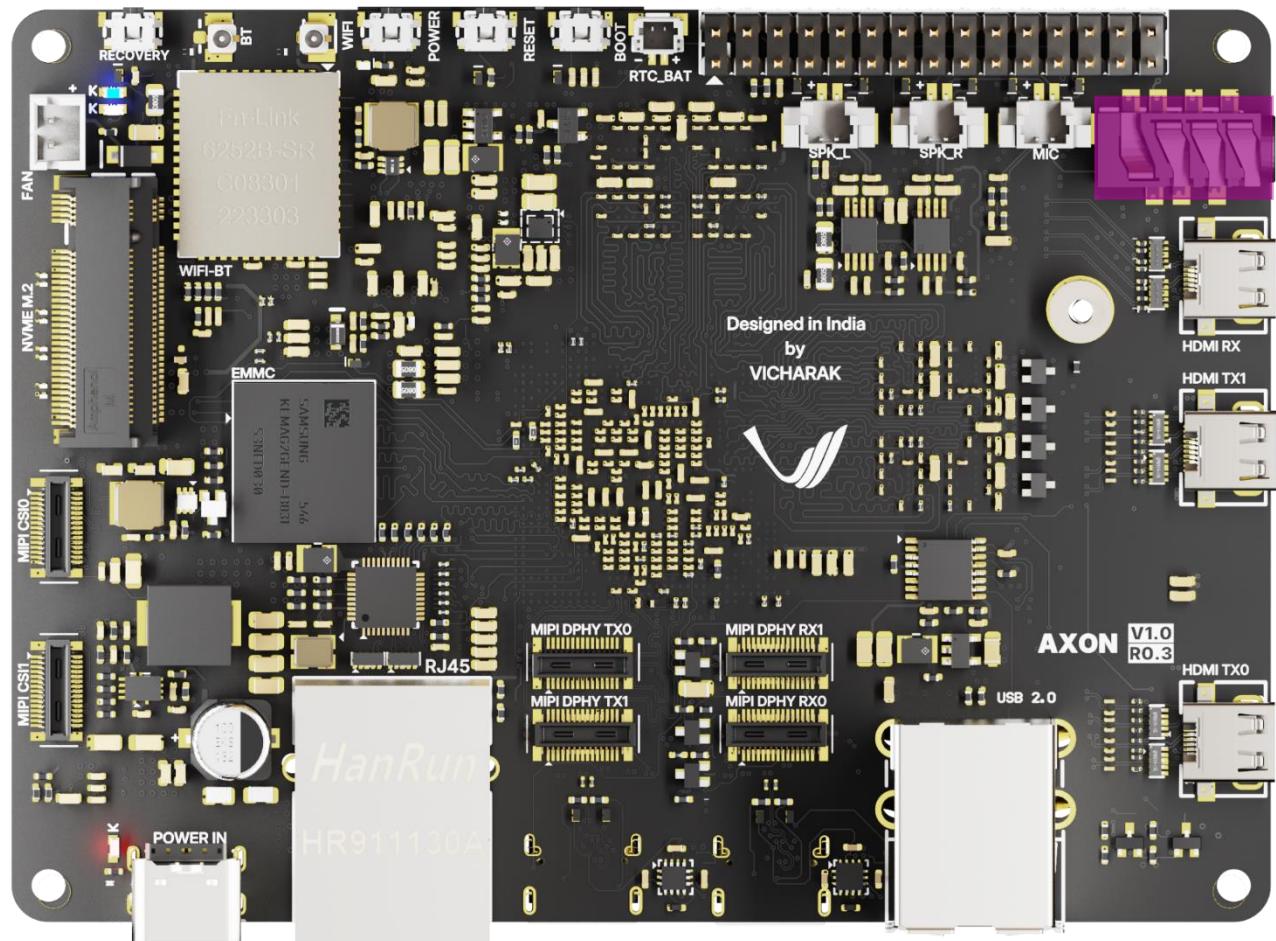
**2x USB2.0 HOST**

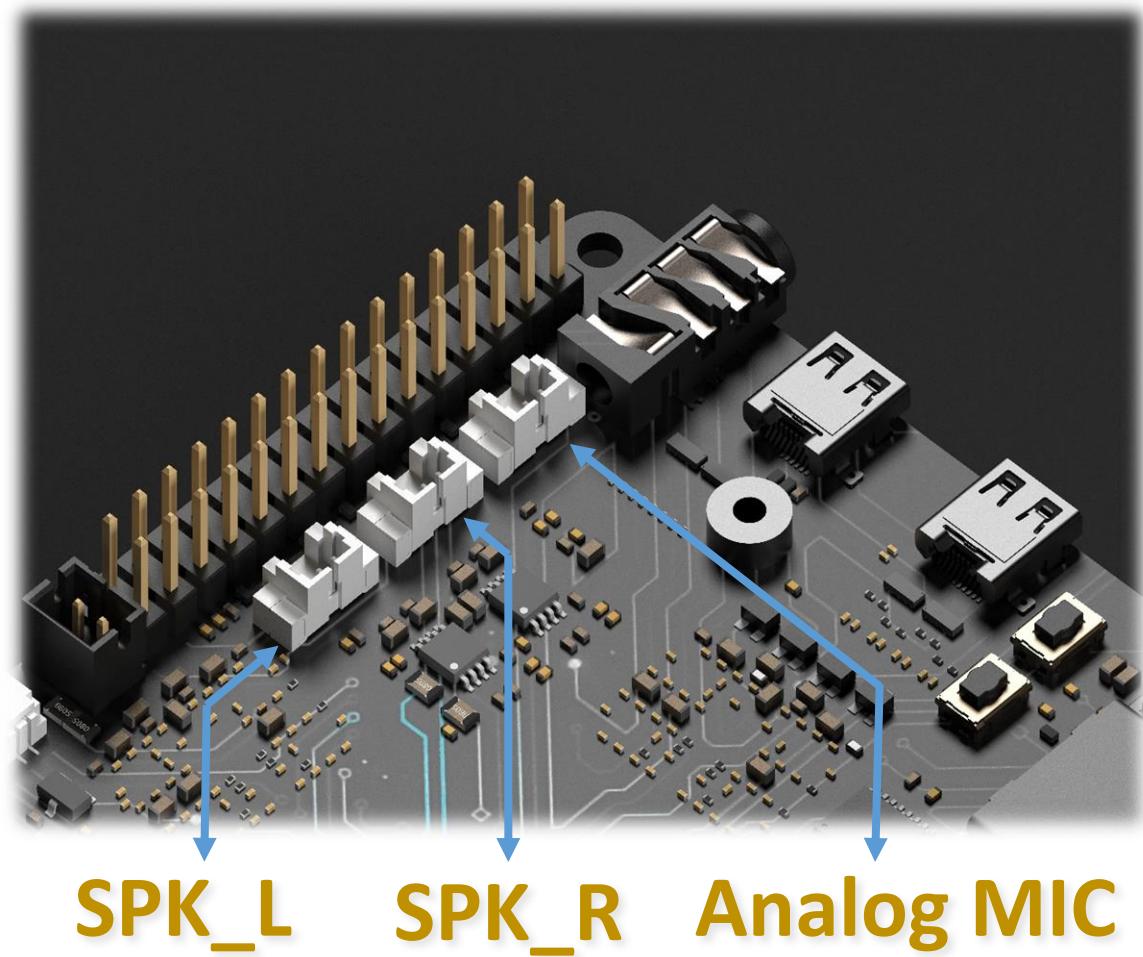






**3.5mm Audio Jack with MIC**





### W2B Connector

2Pin

1.25mm Pitch

Current rating (max): 1A each pin

MPN : WAFER-125L-2A

### Speaker

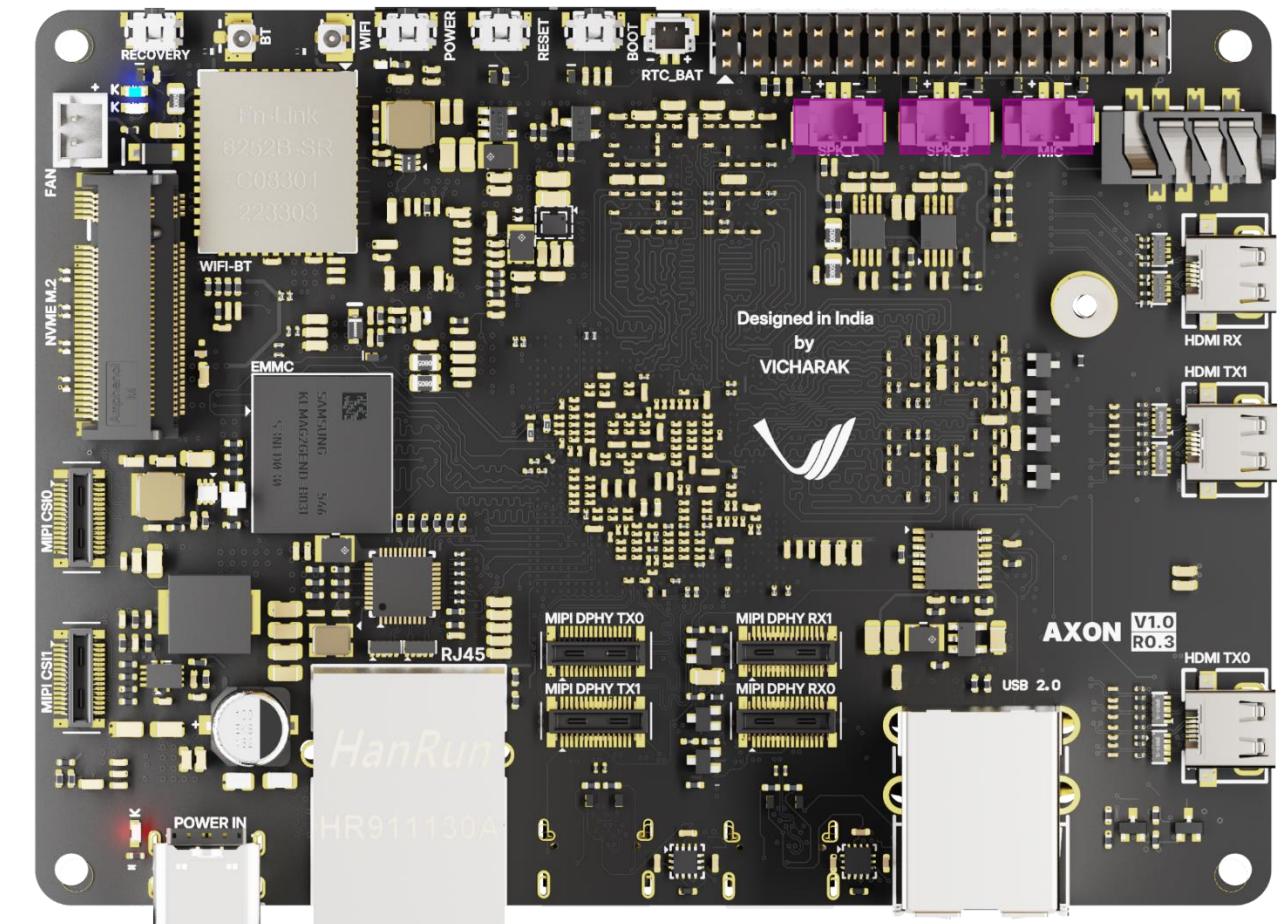
load : 4 ohm

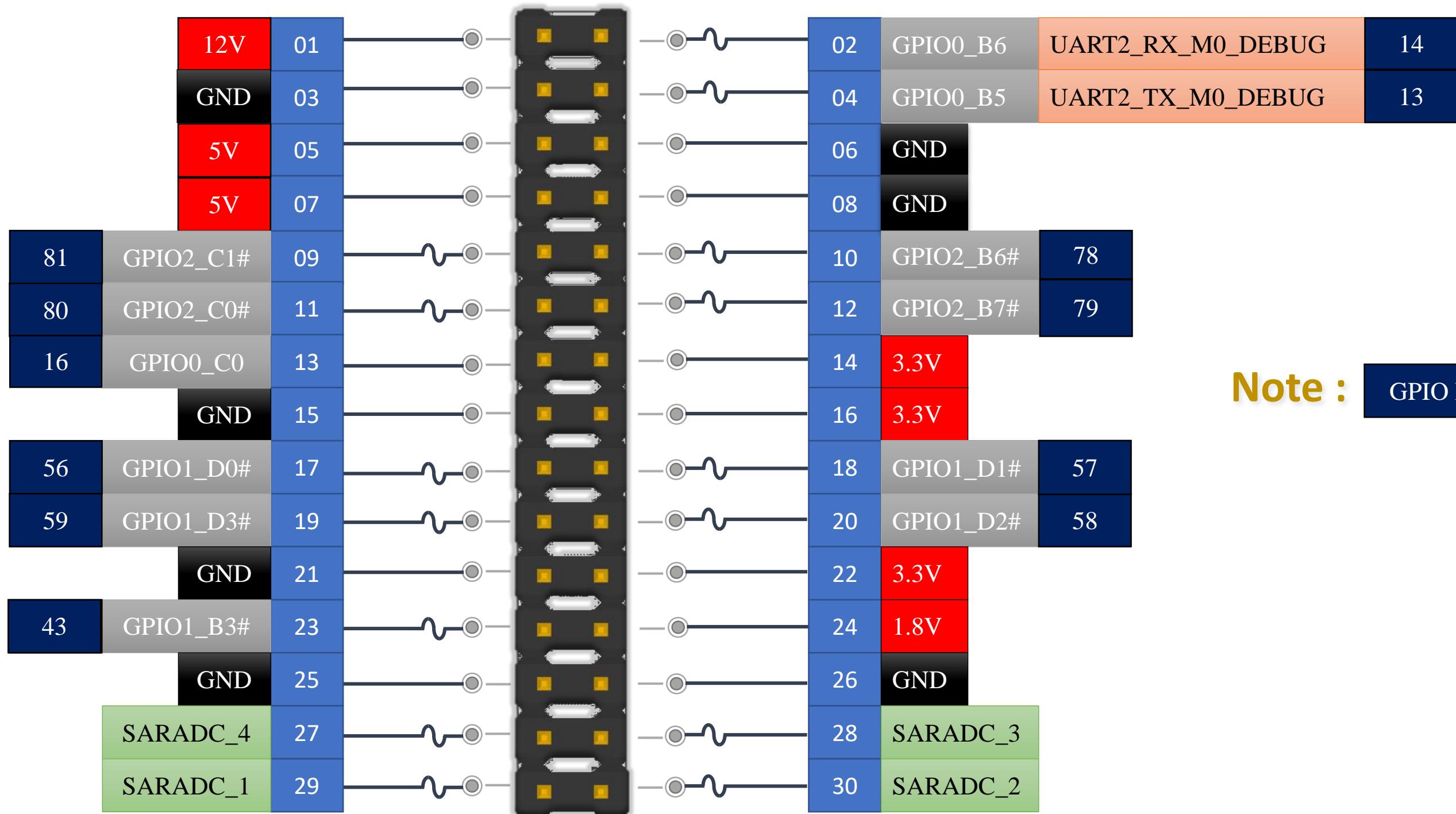
Power :3W

### Mic

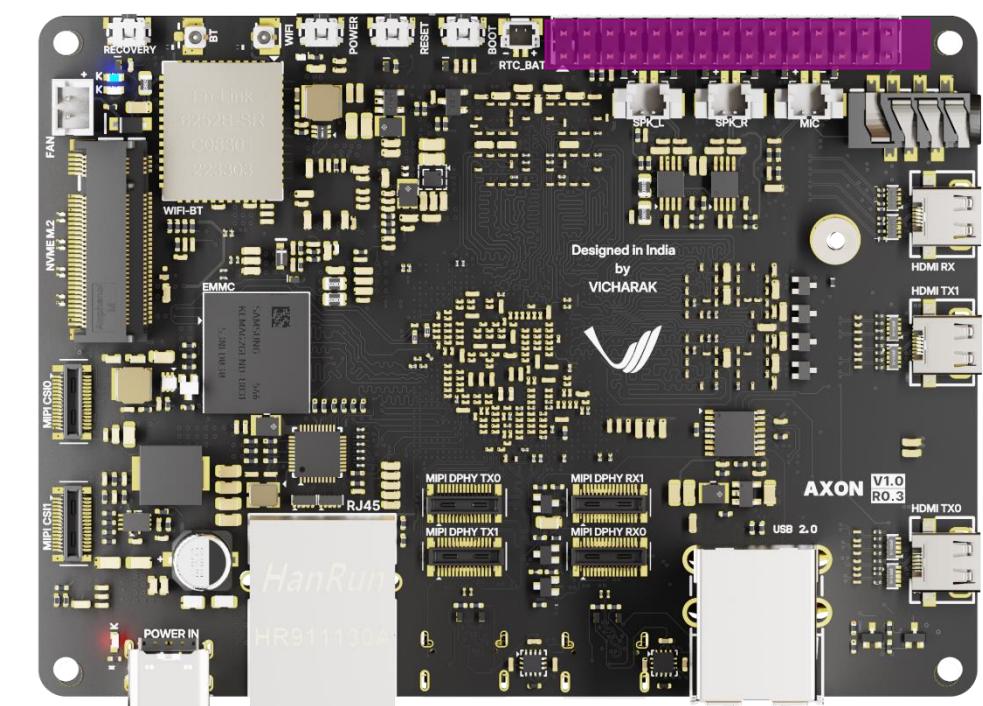
Analog differential mic

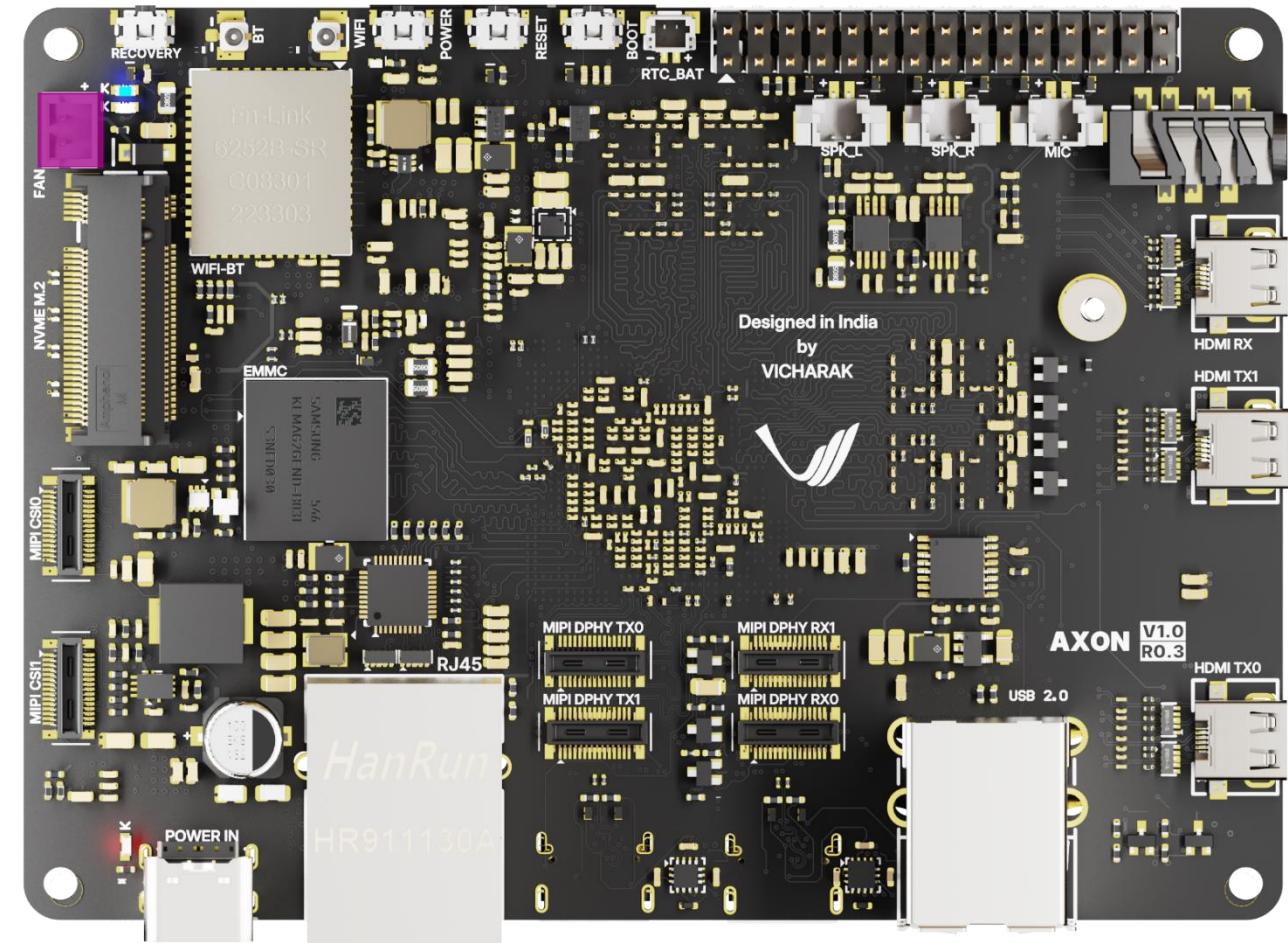
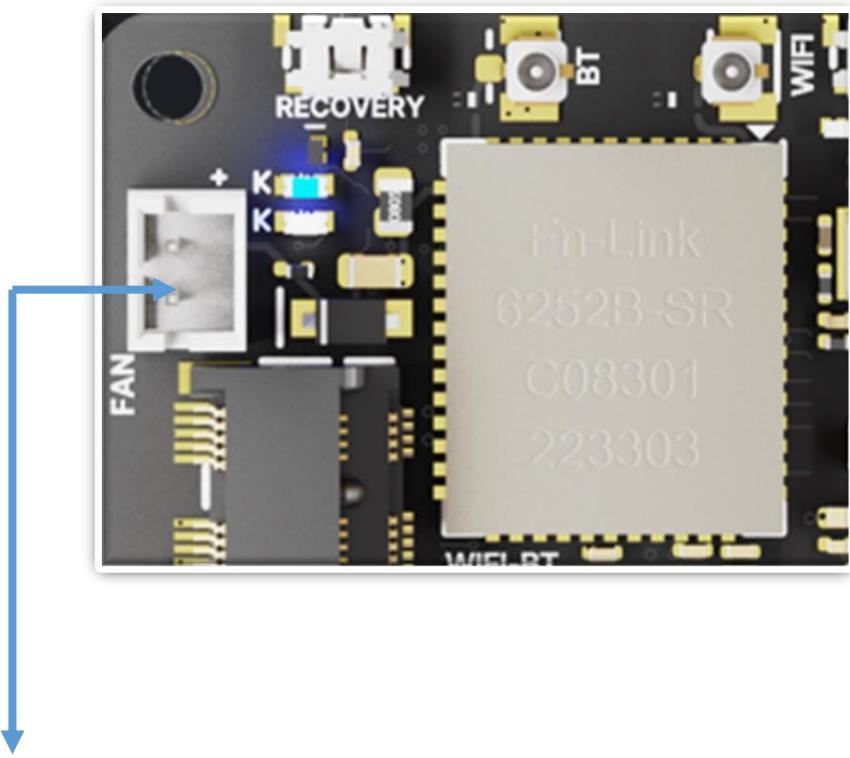
**Note :** If you want to use an analog single-ended microphone, connect the positive point to the positive pin of the mic connector and the negative point to ground.





## RK3588 30Pin GPIO Header 2.54mm





## Fan Connector

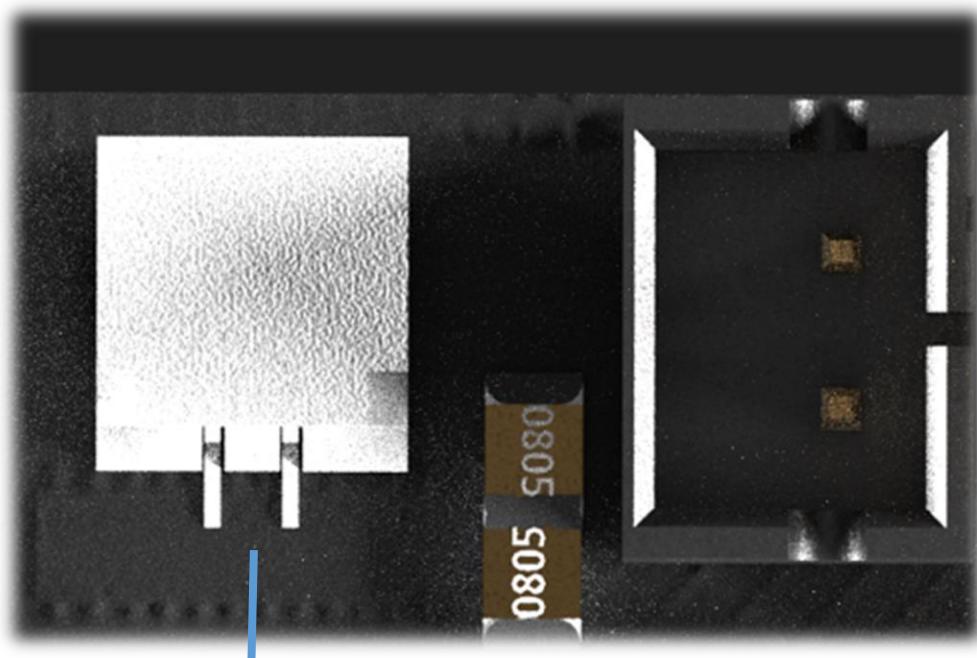
FAN Connector

2 Pin

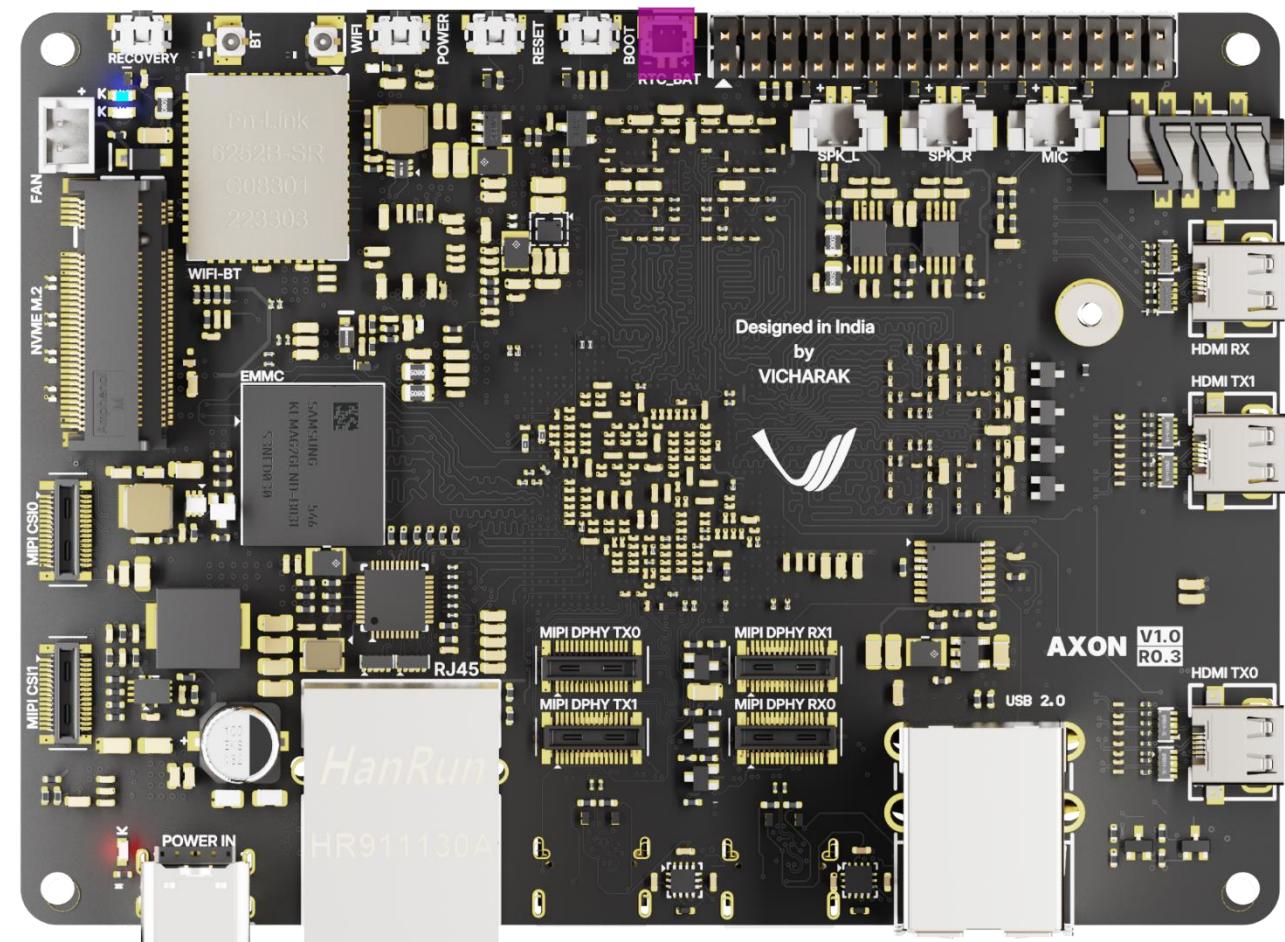
2mm Pitch

Voltage: 5V

Current rating (max): 2A



**RTC Battery Connector**



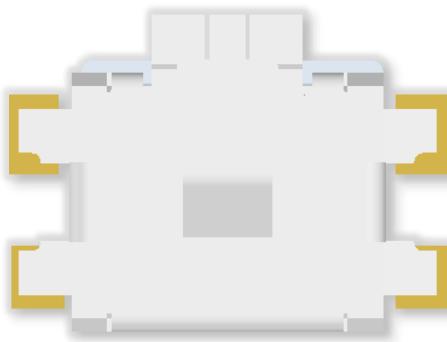
JST Connector

2 Pin

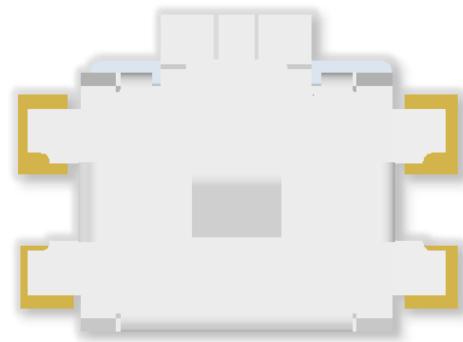
1mm Pitch

Current rating(max): 1A

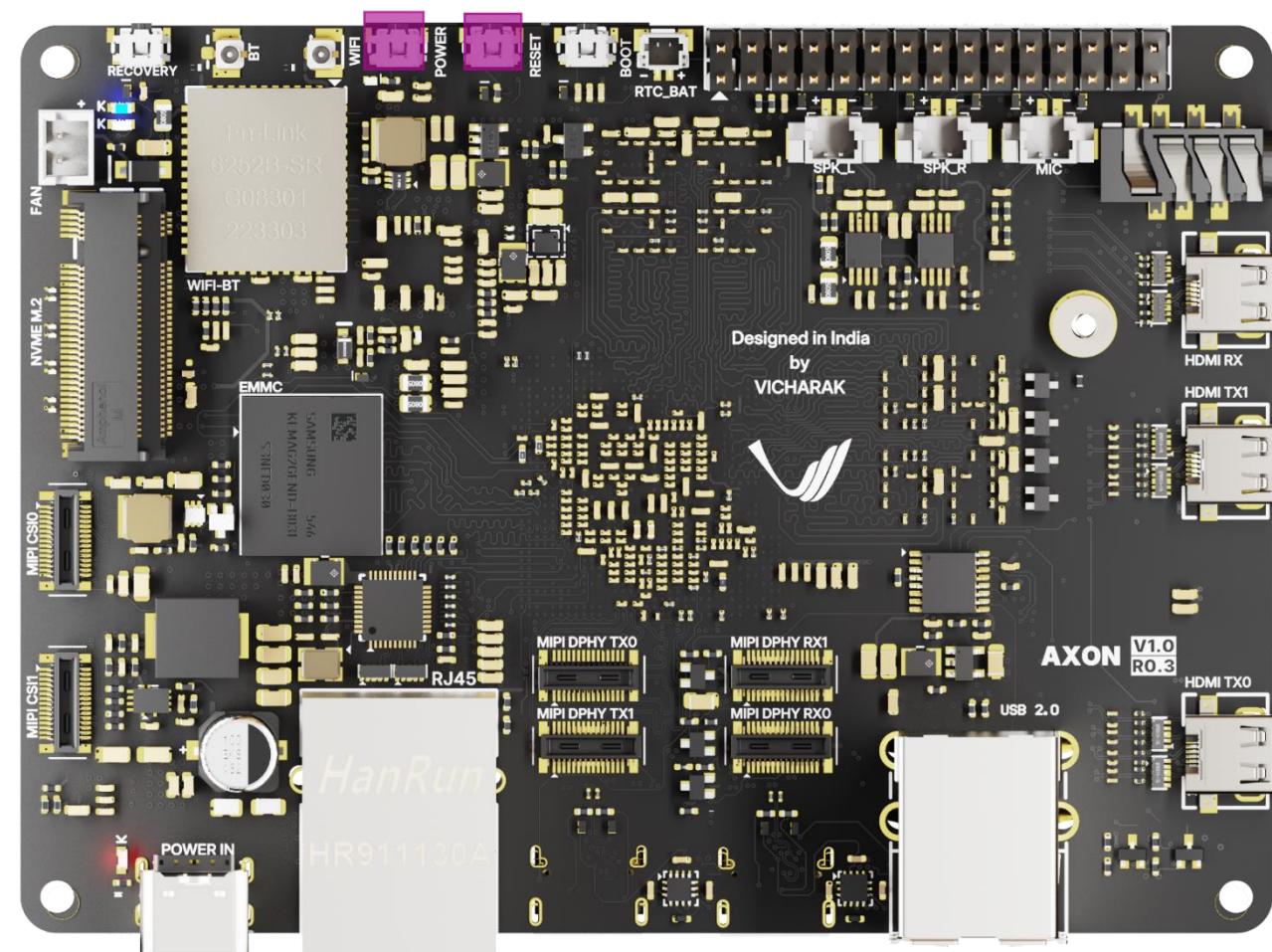
## 19 Reset & Power Key

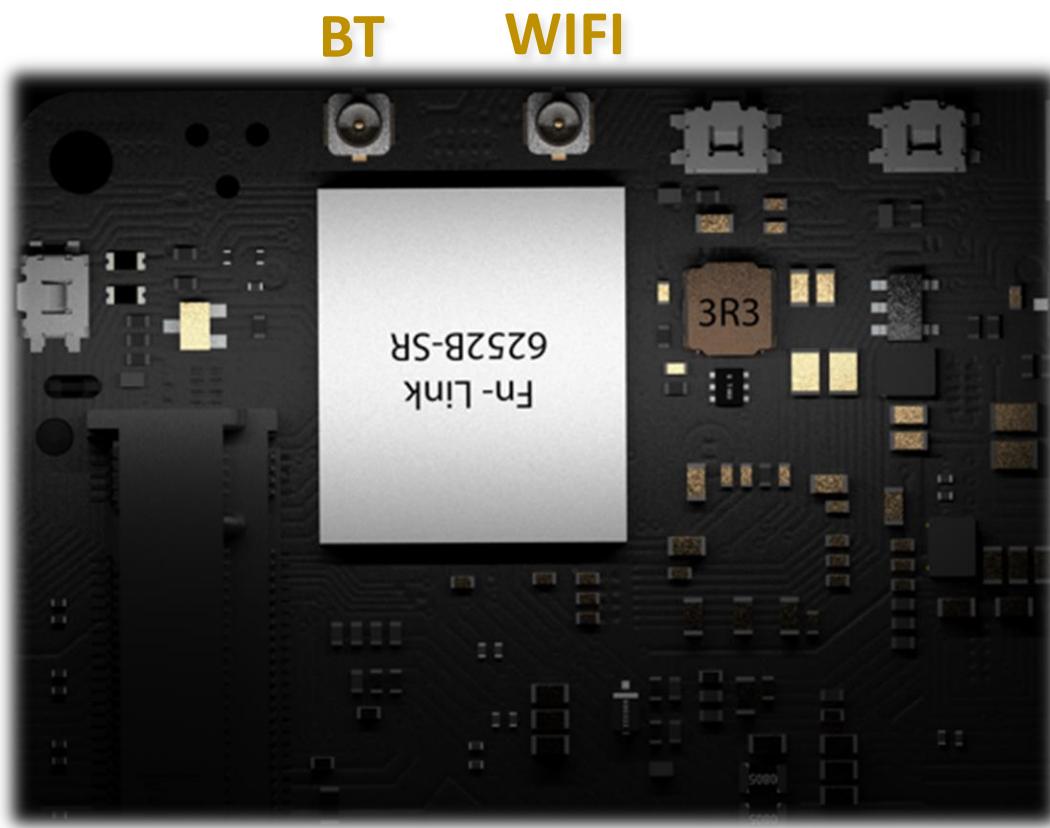


PWR  
on/off  
Key

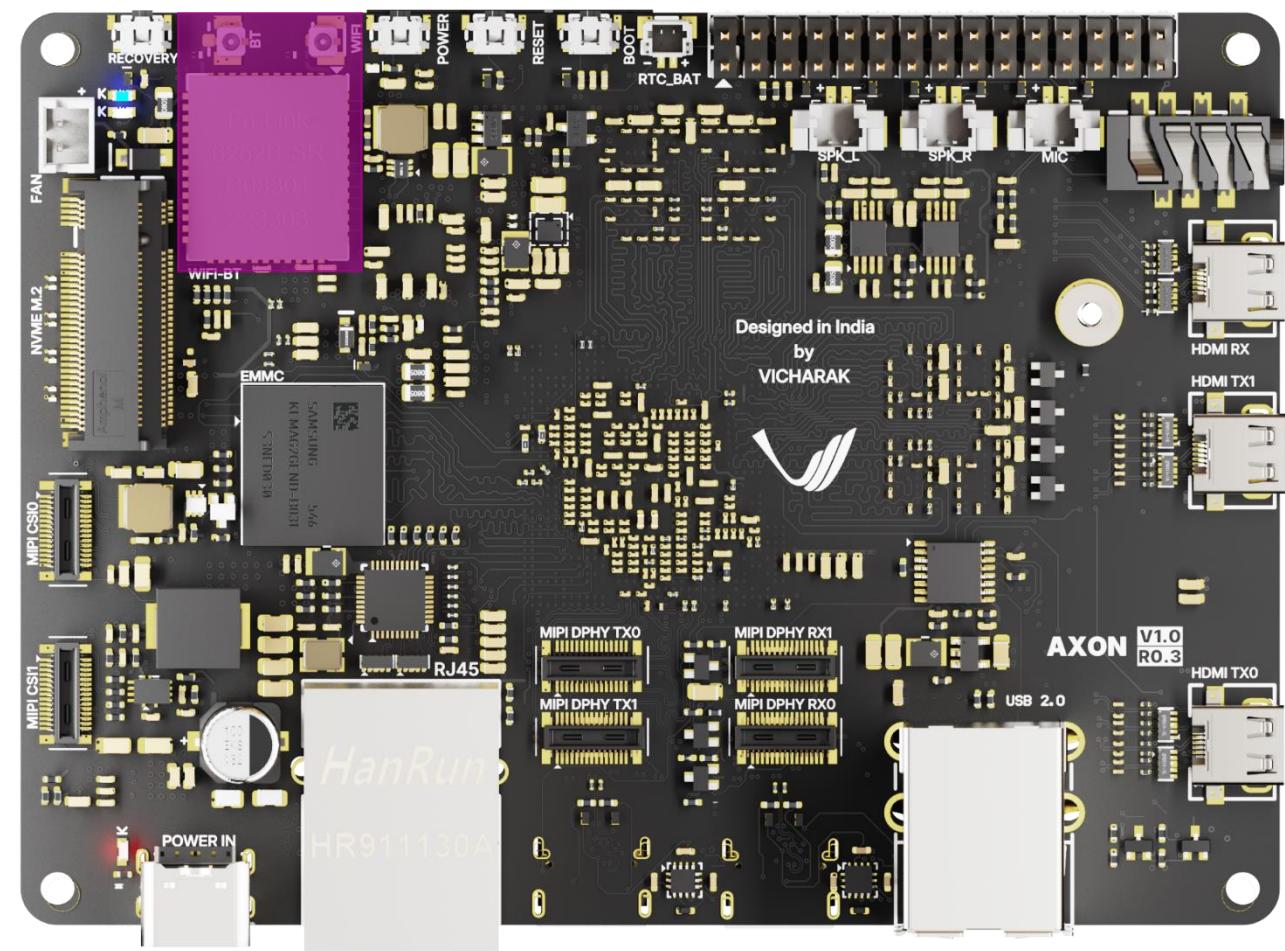


Reset  
Key



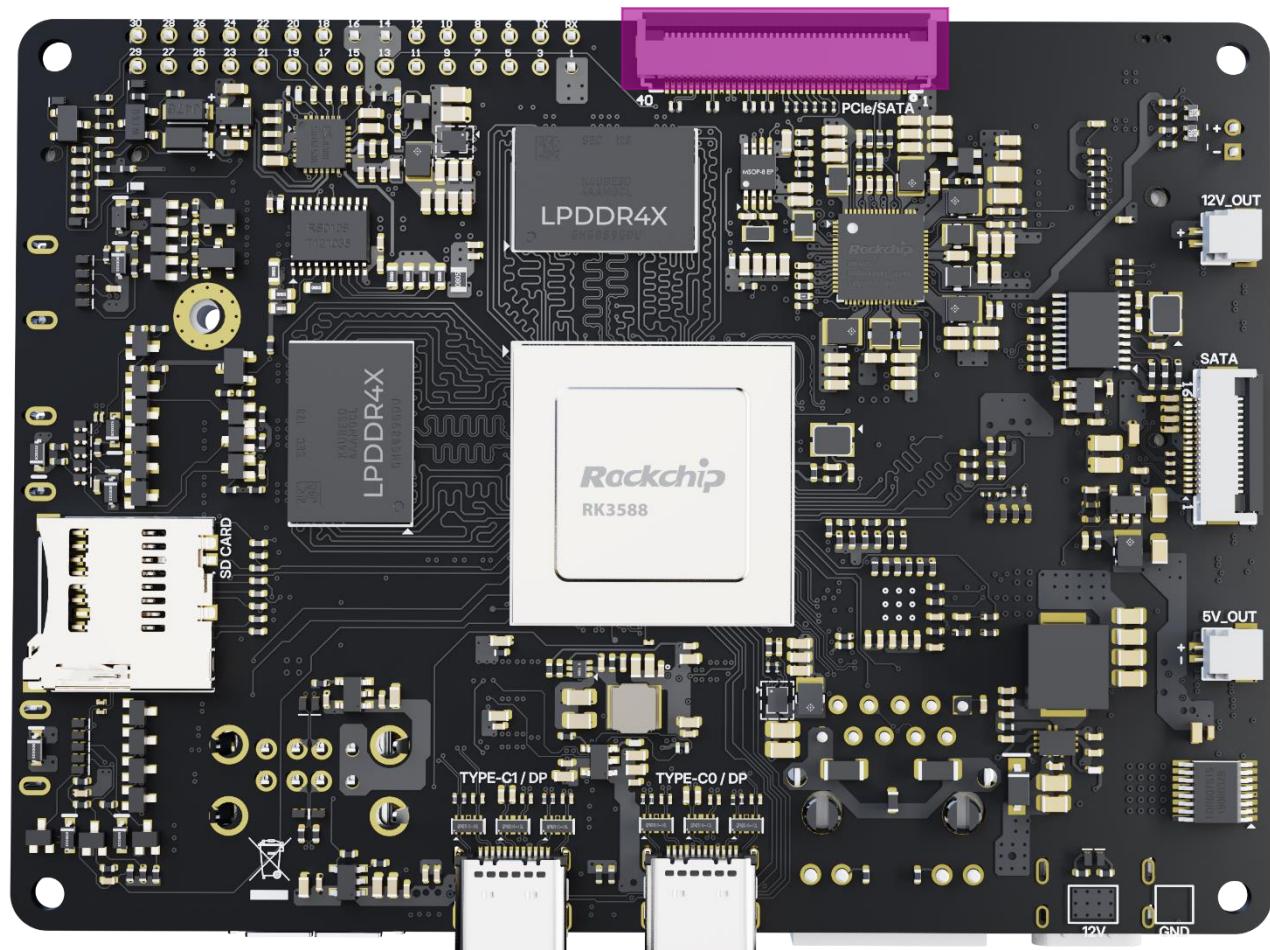


**6252B-SR Wifi 6 BT5.2 Module**





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_TX_P
24	PCIE20_1_TX/SATA30_1_TX_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/USB3.0_RX_P
33	PCIE20_2_RX/SATA30_2_RX_N/USB3.0_RX_N
34	GND
35	PCIE20_2_TX/SATA30_2_TX_P/USB3.0_TX_P
36	PCIE20_2_TX/SATA30_2_TX_N/USB3.0_TX_N
37	GND
38	PCIE20_2_REFCLK_P
39	PCIE20_2_REFCLK_N
40	GND



## PCIe2.0/SATA3.0/USB3.0 FPC Connector

FPC Connector

40 Pin

0.5mm Pitch

Current rating (max): 0.5A each pin

MPN : FPC-05F-40PH20

FPC Cable

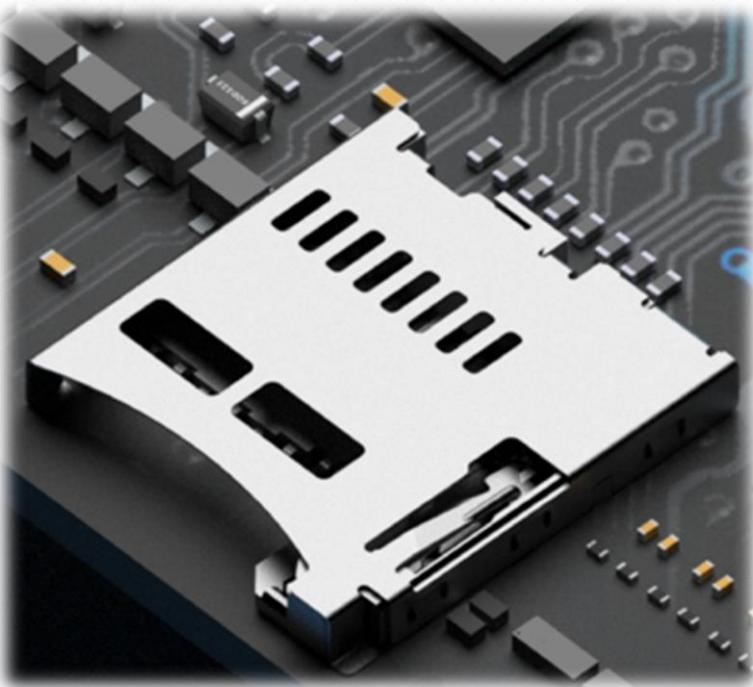
40 Pin

0.5mm Pitch

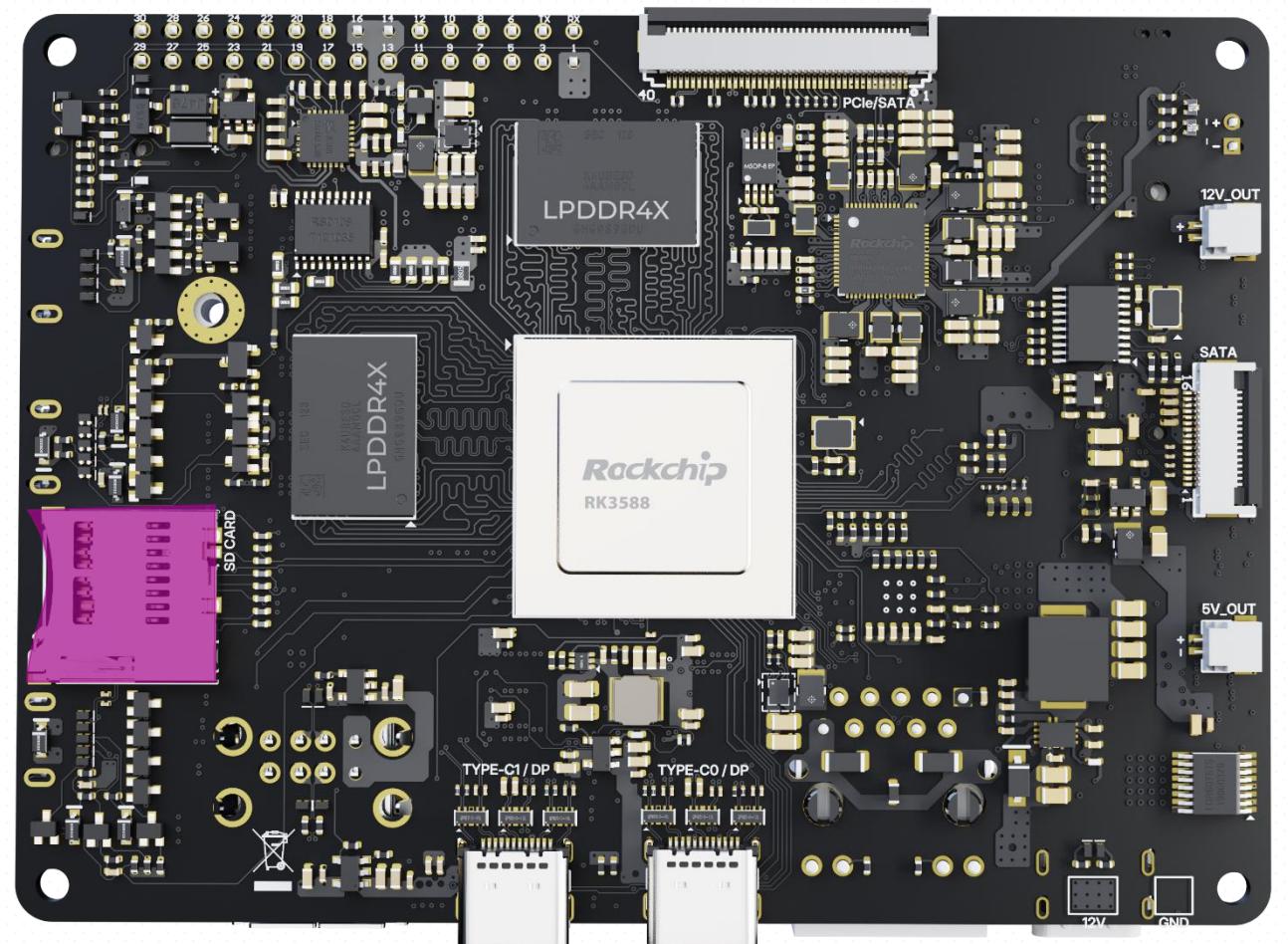
Impedance 85 Ohm

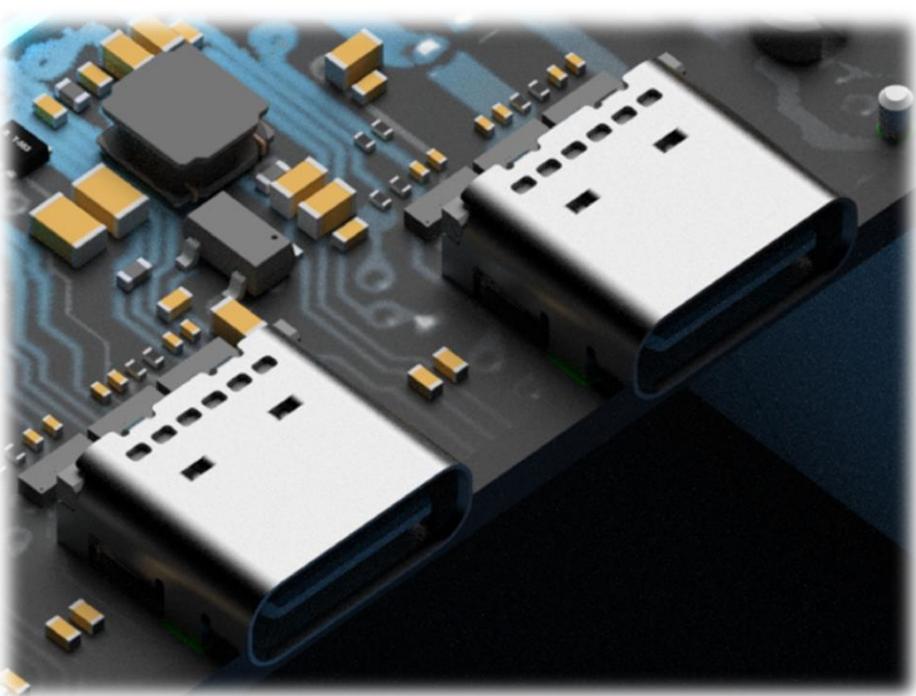
**NOTE:-** If you want to use USB/SATA, you can take 5V directly from the 5V\_OUT connector on the AXON board, or you can use a boost converter on the daughterboard to convert 3.3V to 5V, alternatively, you can supply 5V externally.

**NOTE:-** If you want to use SATA ,You can take 12V directly from the 12V out connector on the AXON board, or you can use a boost converter on the daughterboard to convert 3.3V to 12V. Alternatively, you can use a Type-C or DC JACK connector on the daughterboard to supply power directly from a power adapter

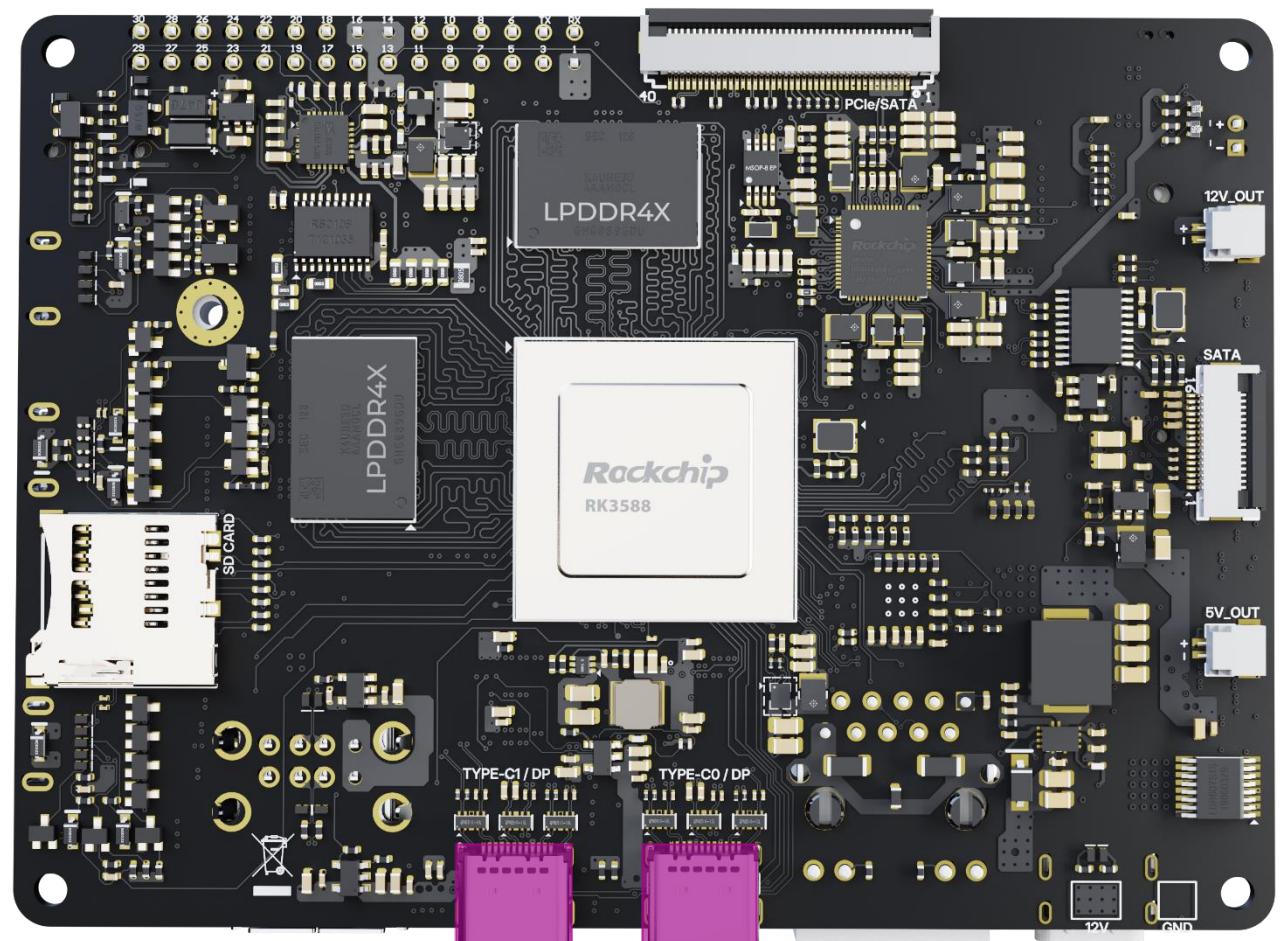


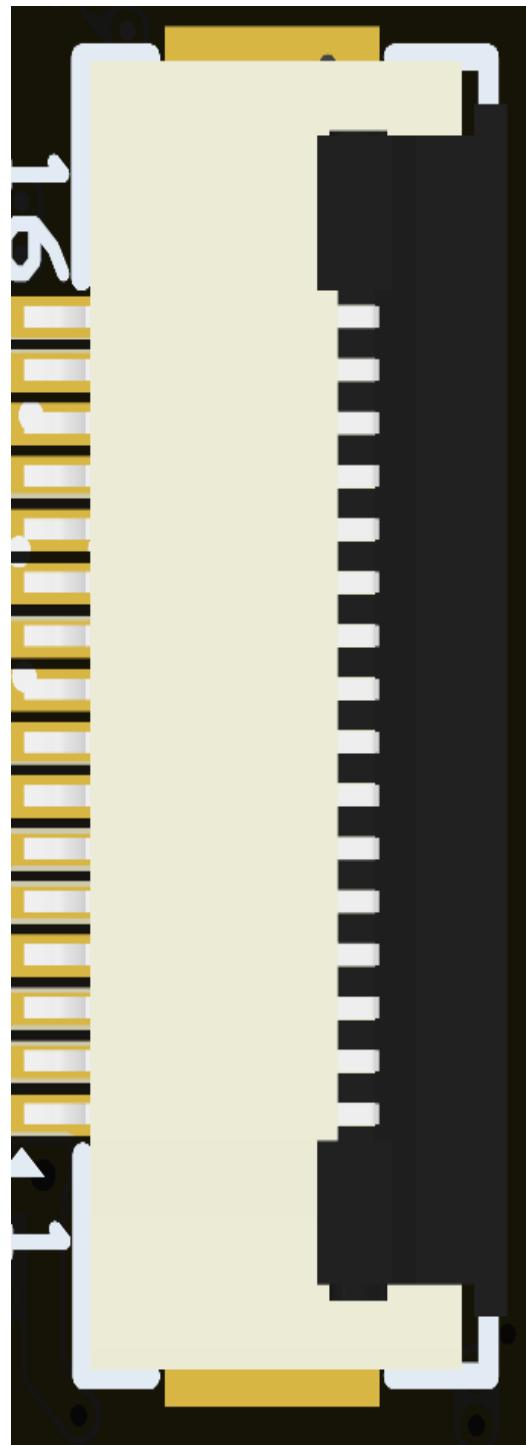
**Push-Push Type MicroSD Card Slot**



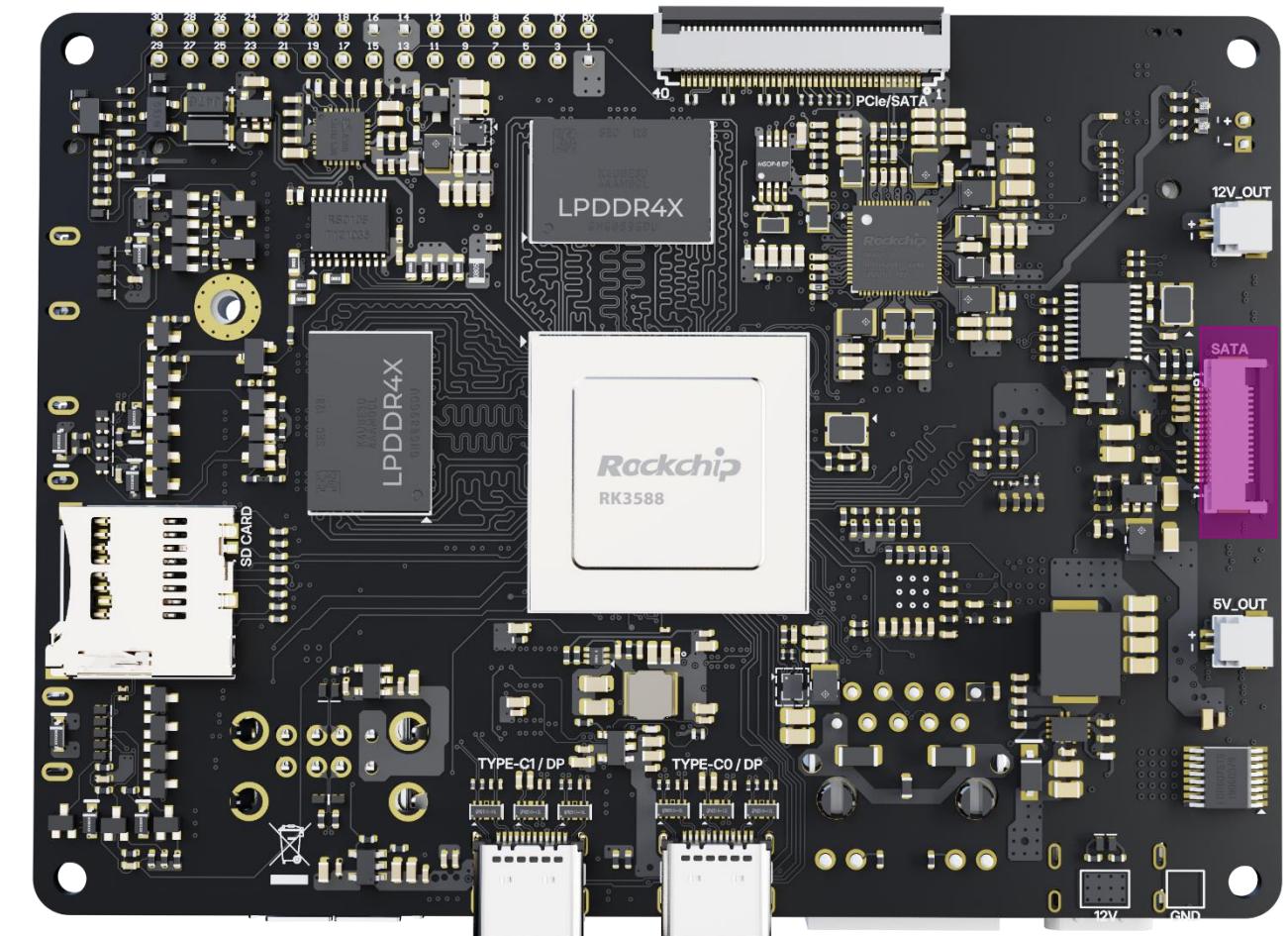


**TYPE-C /DP Port**





01	GND
02	SATA30_0_TX_P
03	SATA30_0_TX_N
04	GND
05	SATA30_0_RX_N
06	SATA30_0_RX_P
07	GND
08	12V
09	12V
10	12V
11	GND
12	GND
13	5V
14	5V
15	5V
16	GND



## SATA 3.0, 16 Pin FPC Connector

FPC Connector

16 Pin

0.5mm Pitch

Current rating (max): 0.5A each pin

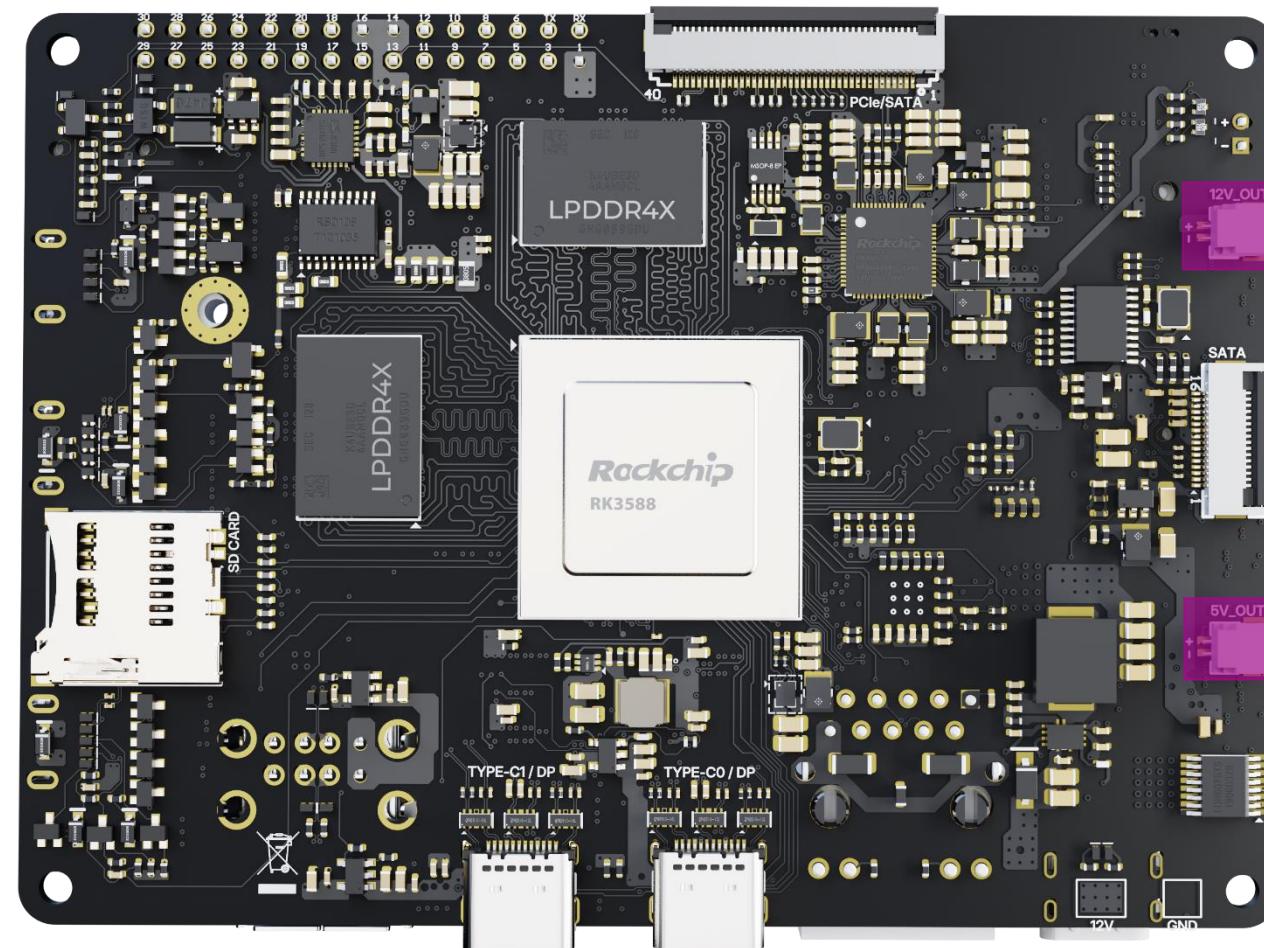
MPN : FPC-05F-16PH20

FPC Cable

16 Pin

0.5mm Pitch

Impedance 90 Ohm



## 12V\_OUT & 5V\_OUT Connector

JST Connector

2 pin

1mm Pitch

Current Rating (max): 1A