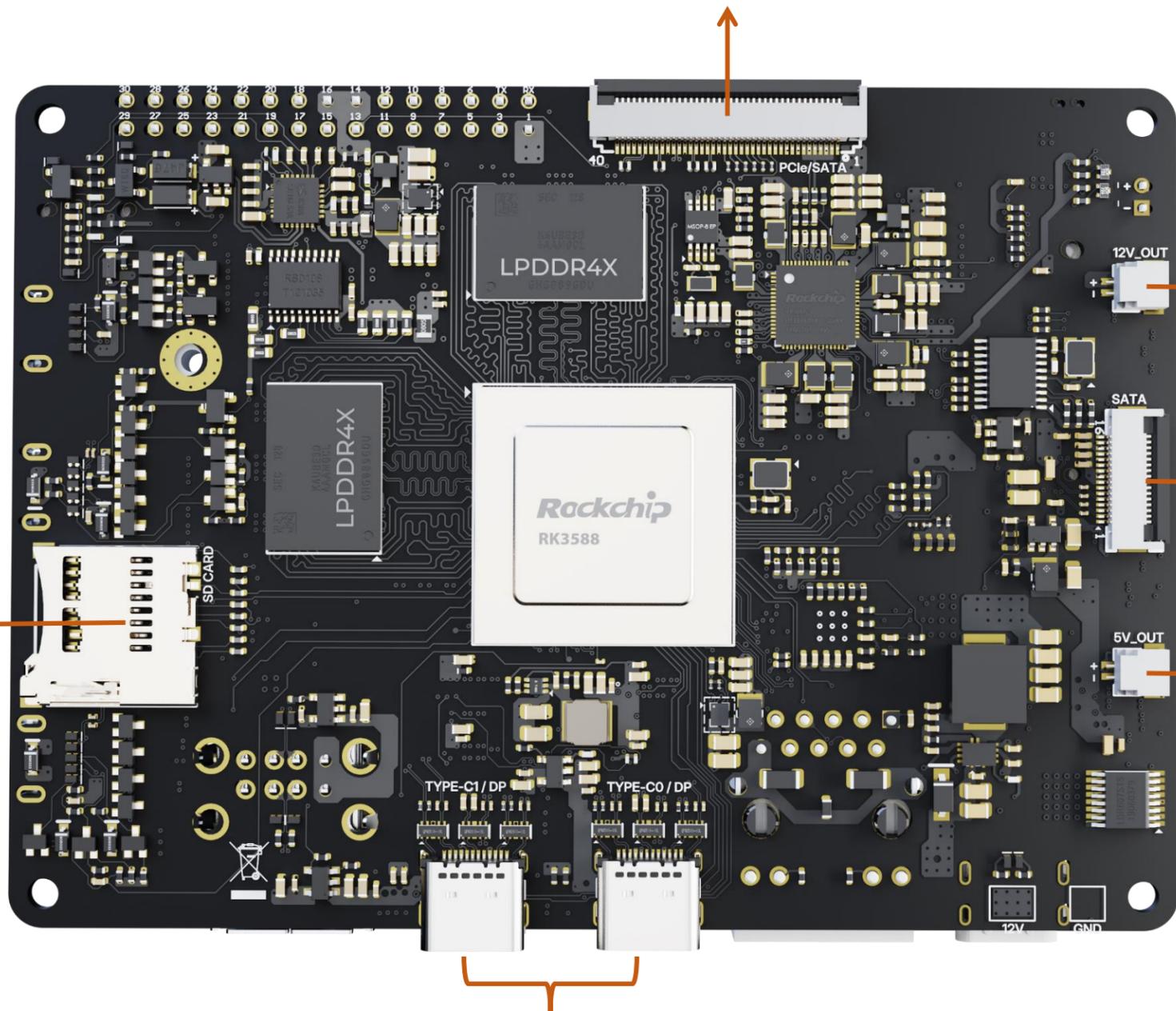


**TOP SIDE**

21 2 X PCIE Gen 2.0/SATA3.0  
(40 Pin FPC Connector)



25 12V\_OUT

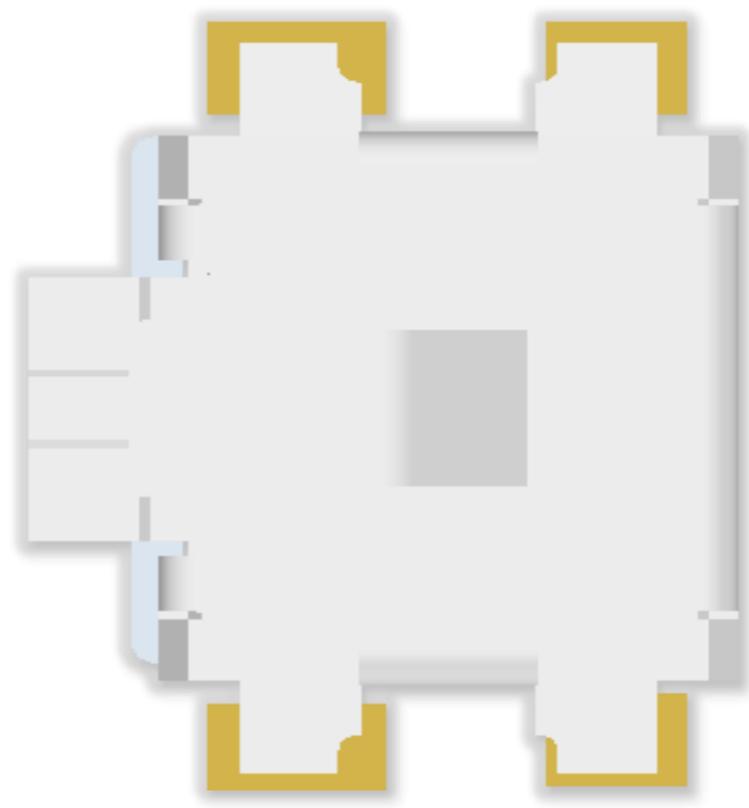
24 1 X SATA3.0  
(16 PIN FPC Connector)

25 5V\_OUT

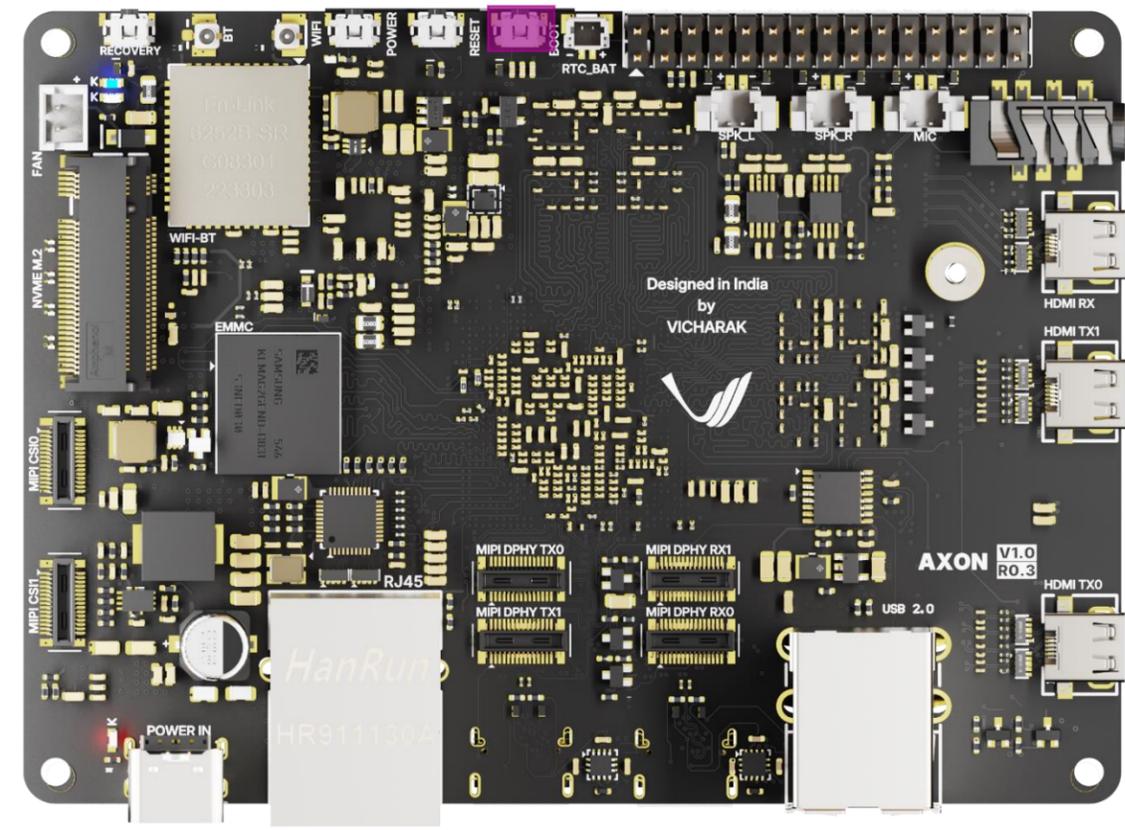
22 SD Card Slot

23 2 X Type-C/DP Port

## BOTTOM SIDE

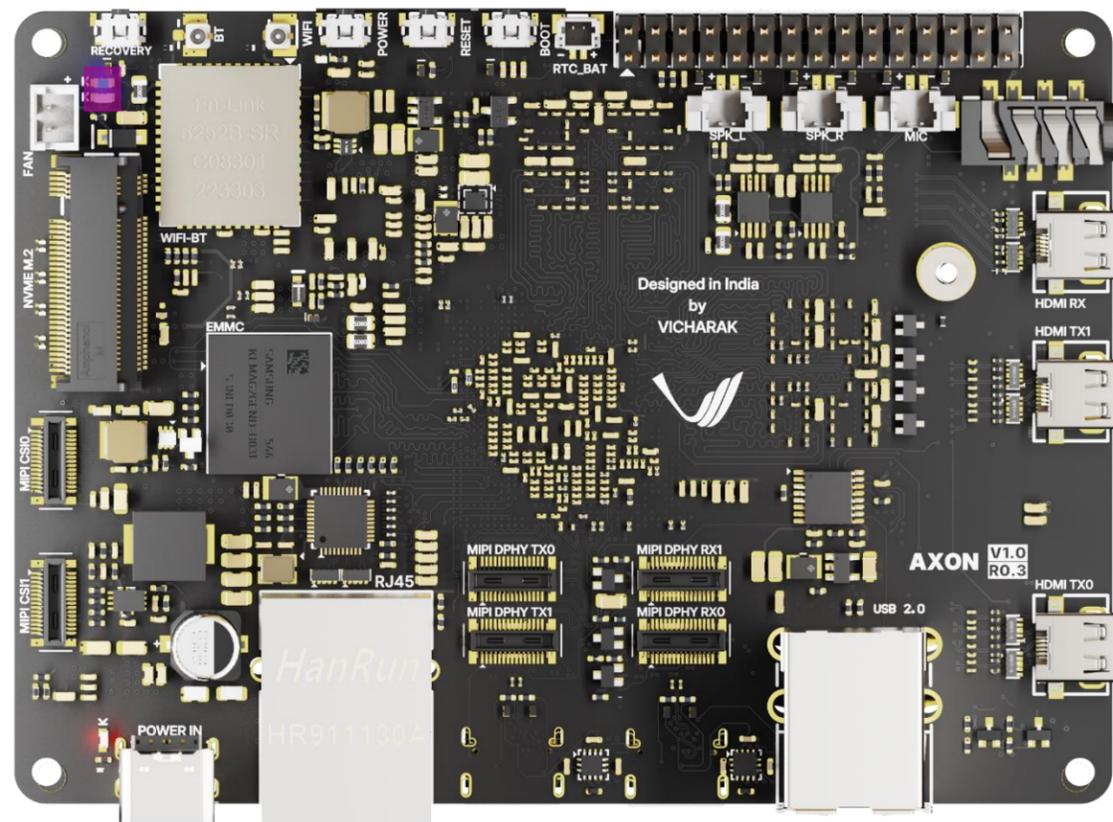


Maskrom Key

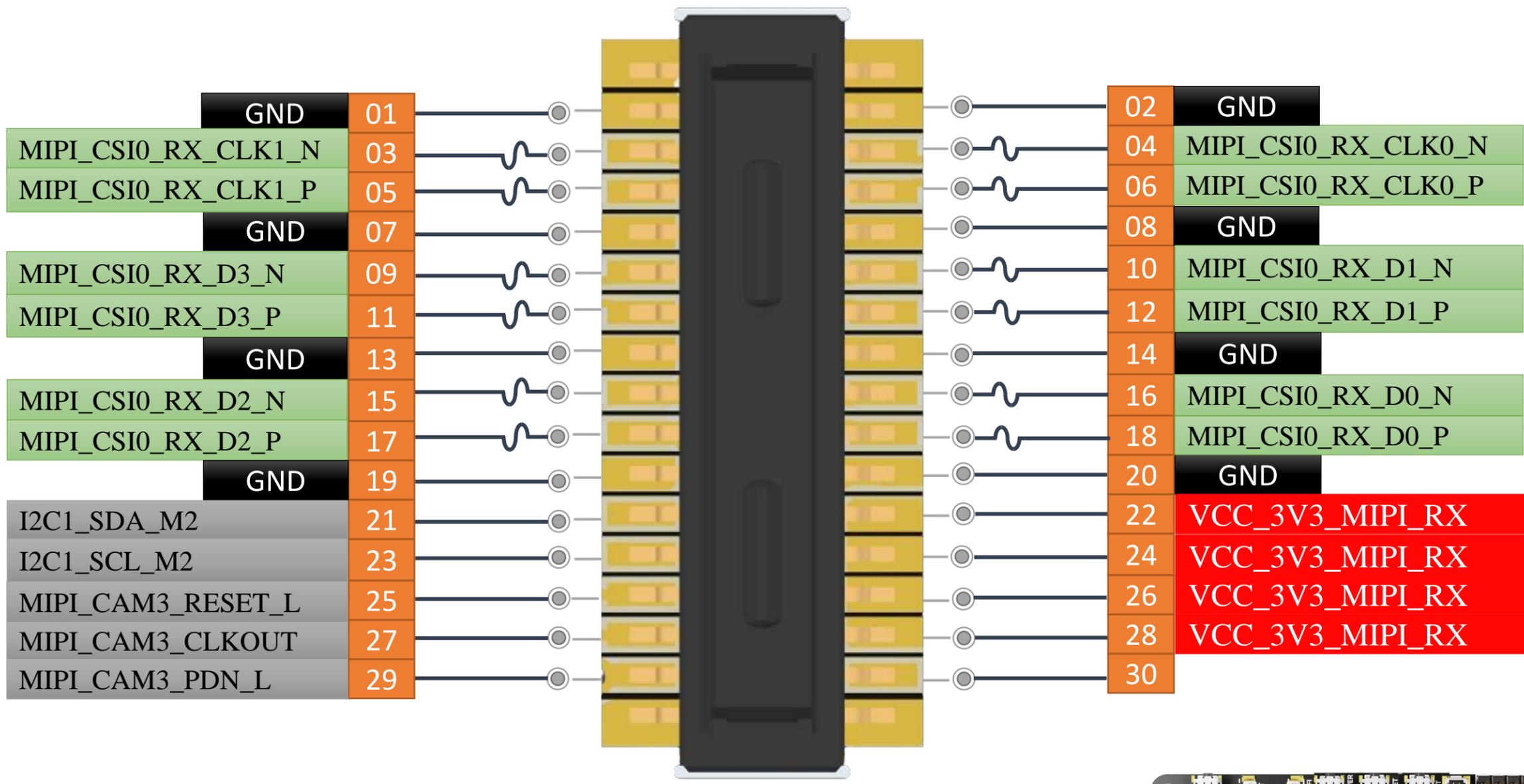




Status LED  
USER LED







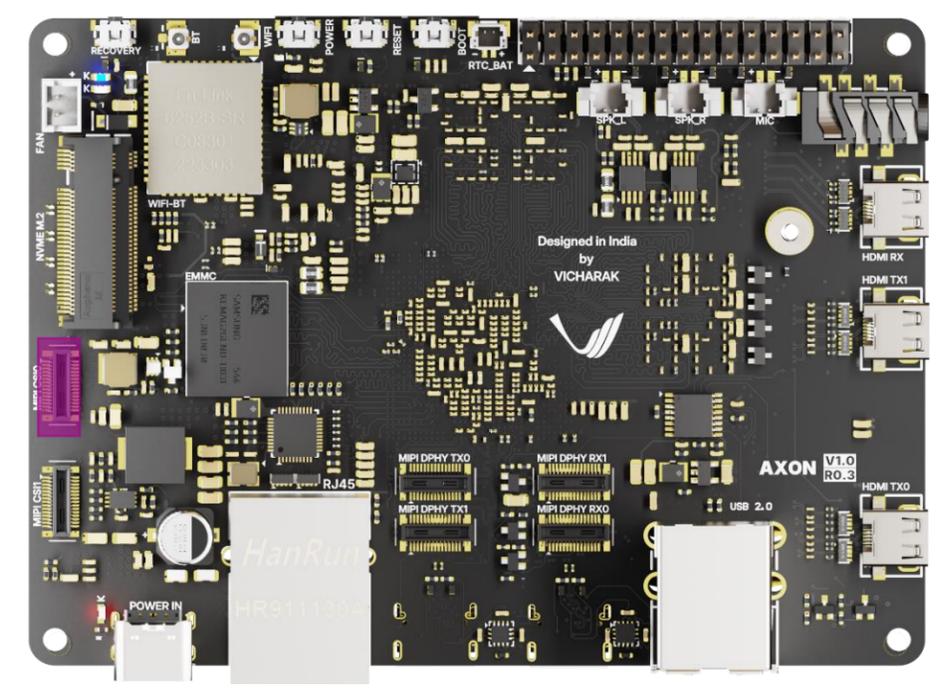
On-Board Connector

30 Pin  
 0.4mm Pitch  
 Current Rating (Max): 300mA each pin  
 MPN : DF40C(2.0)-30DP-0.4V(51)

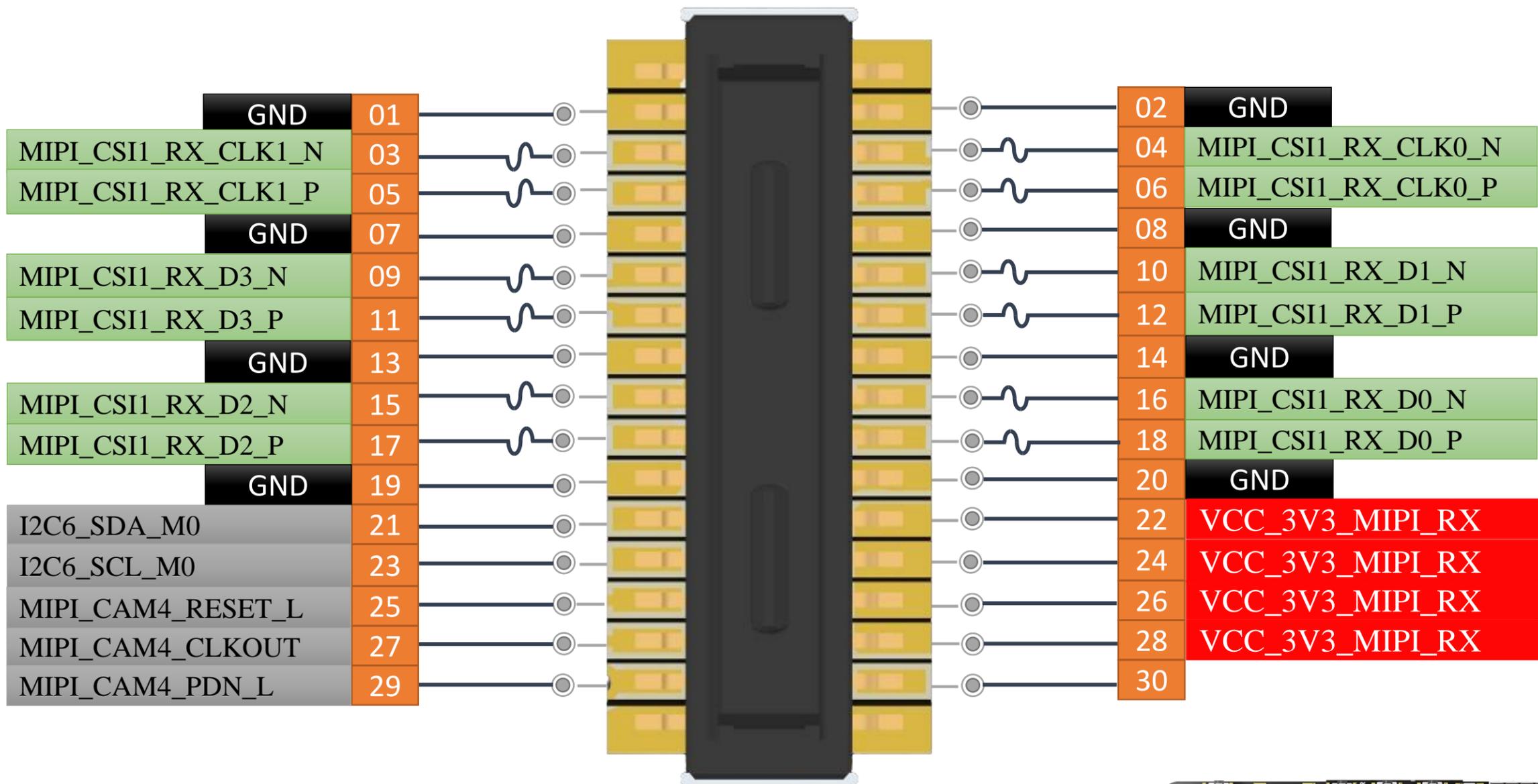
Mating Connector

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)

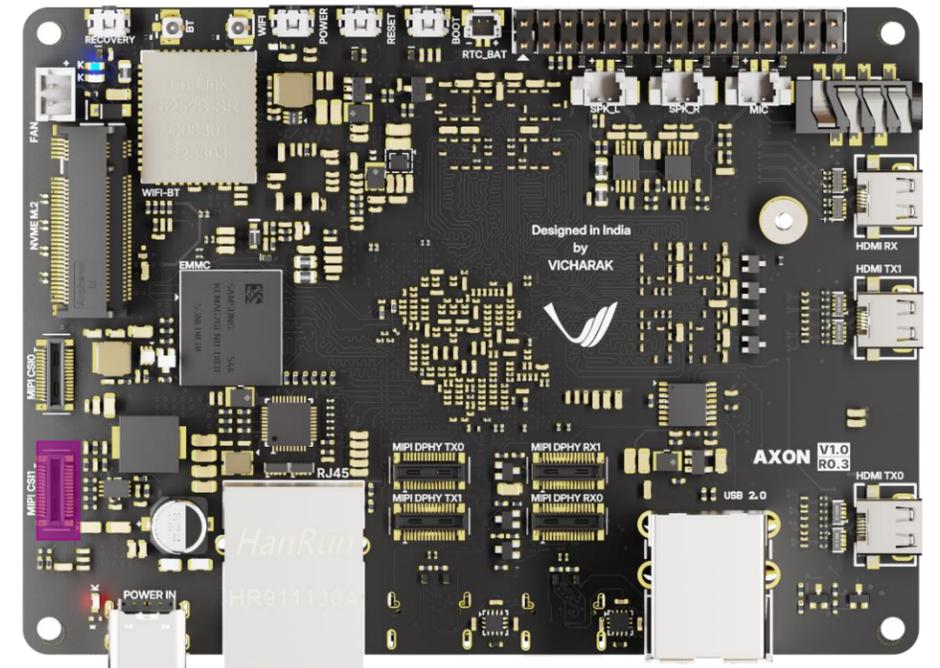
## Mating Connector

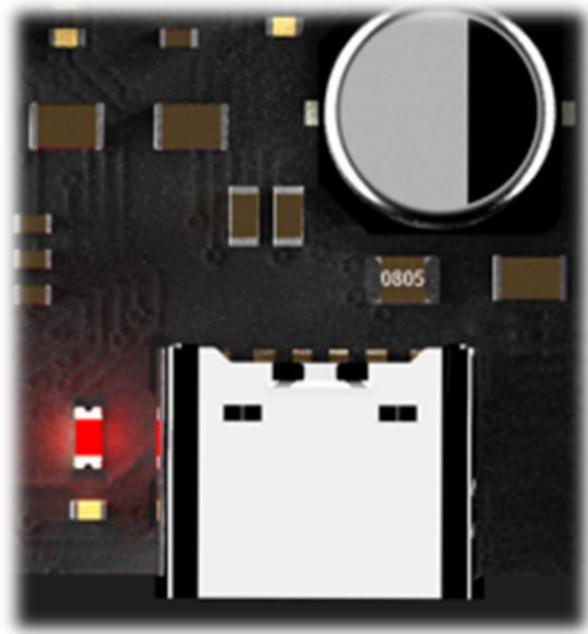
30 Pin

0.4mm Pitch

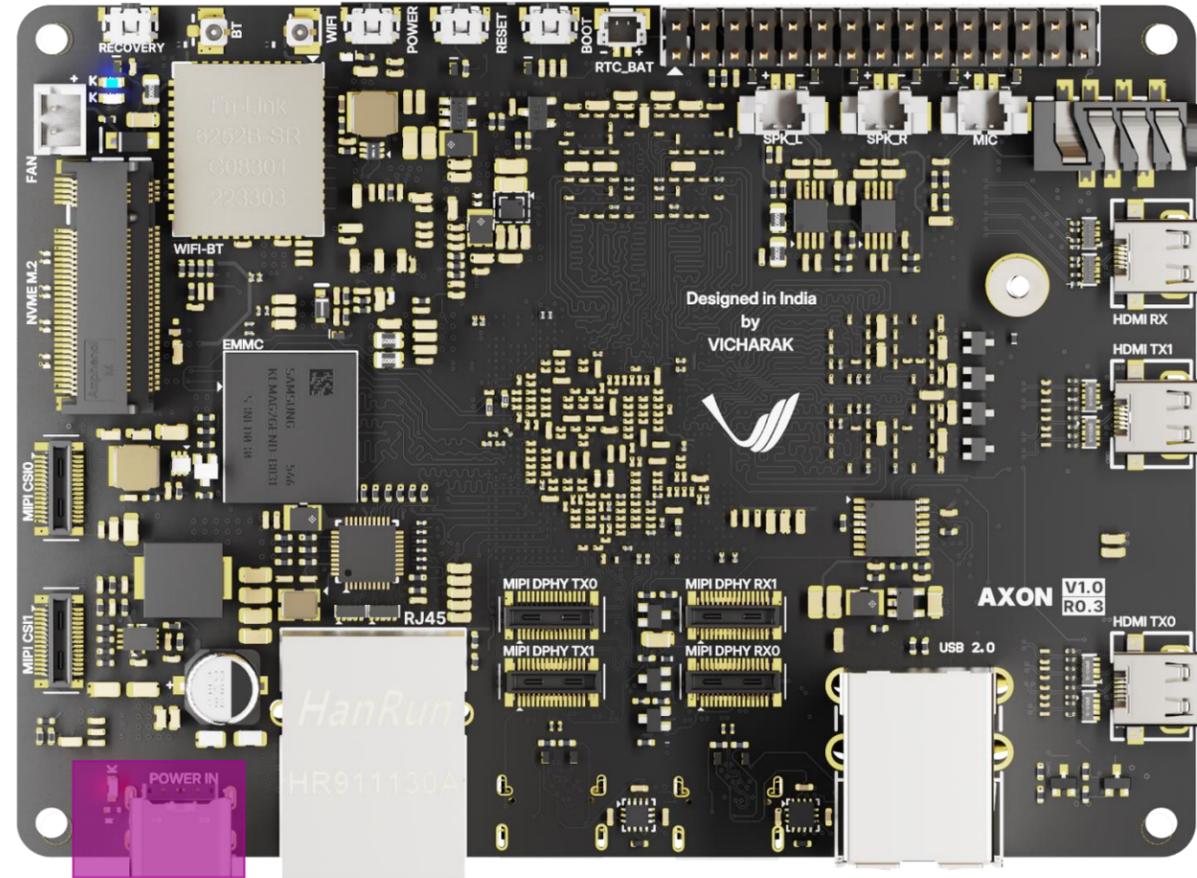
MPN : DF40C(2.0)-30DS-0.4V(51)

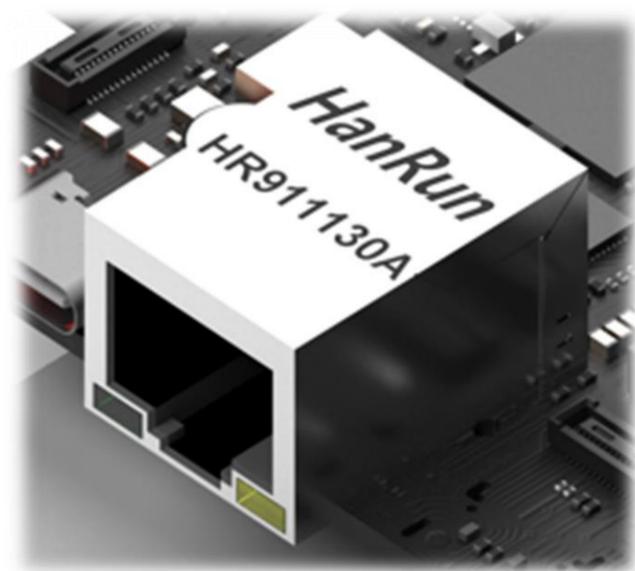
# MIPI CSI RX1



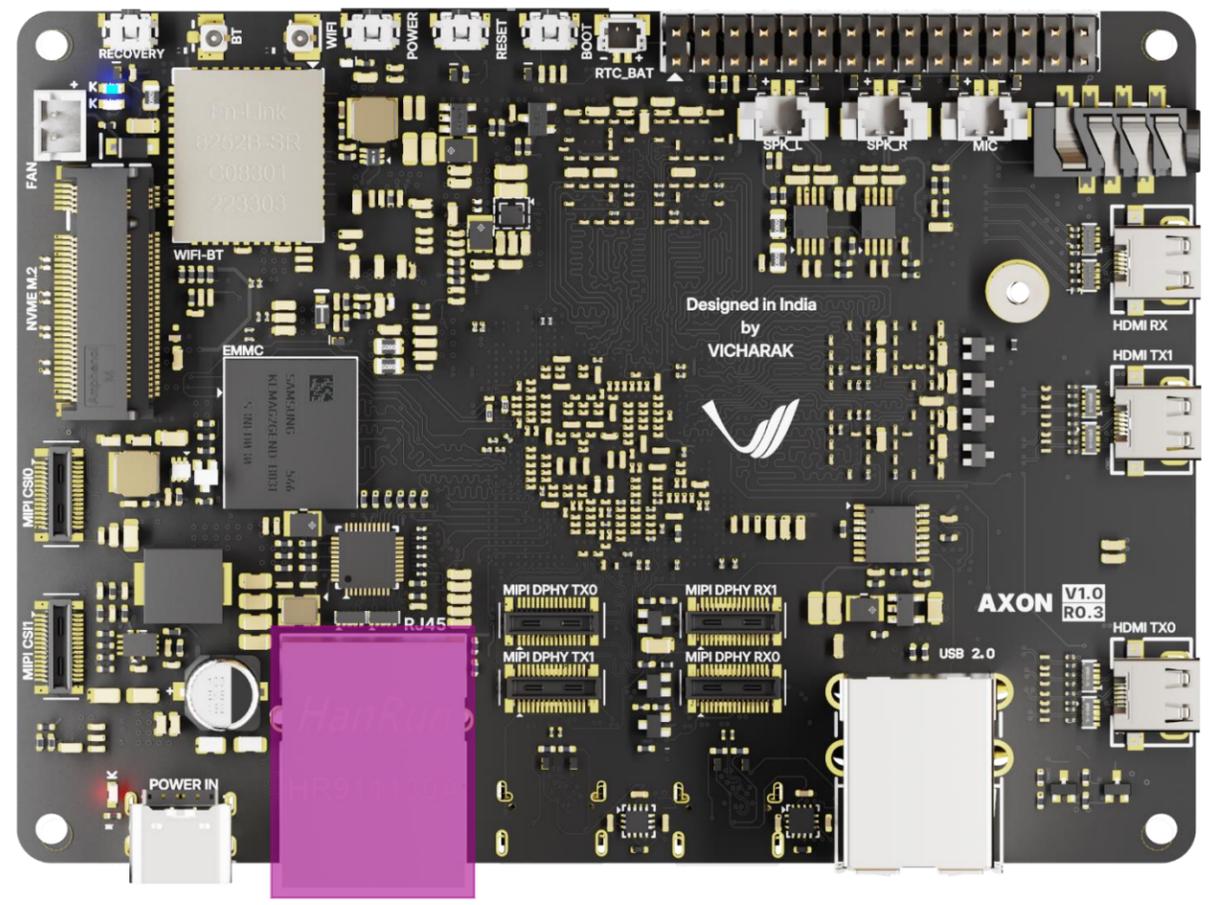


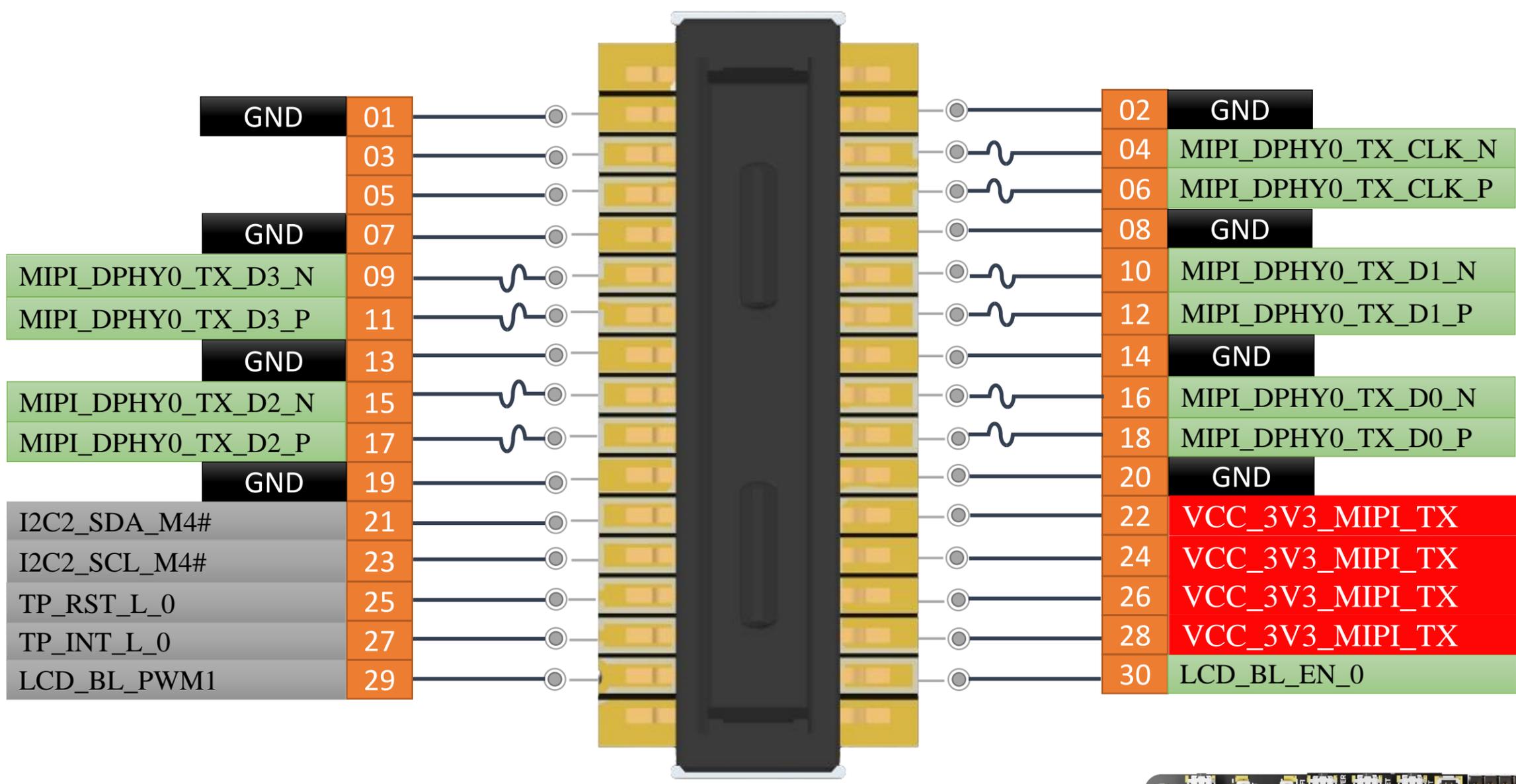
**Type-C Power Input  
(12VDC-5A)**





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





On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

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

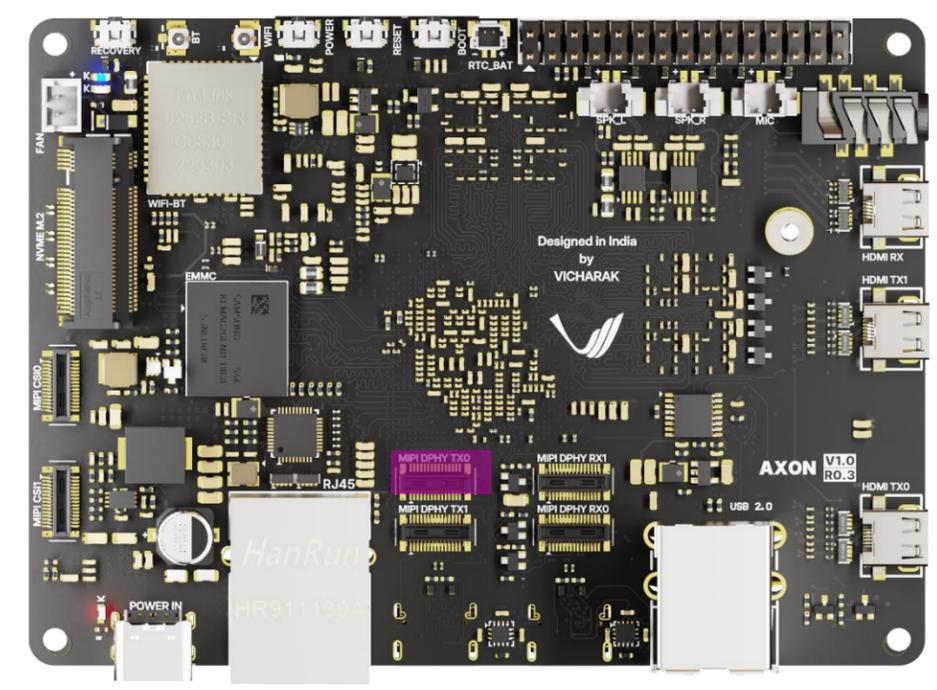
Mating Connector

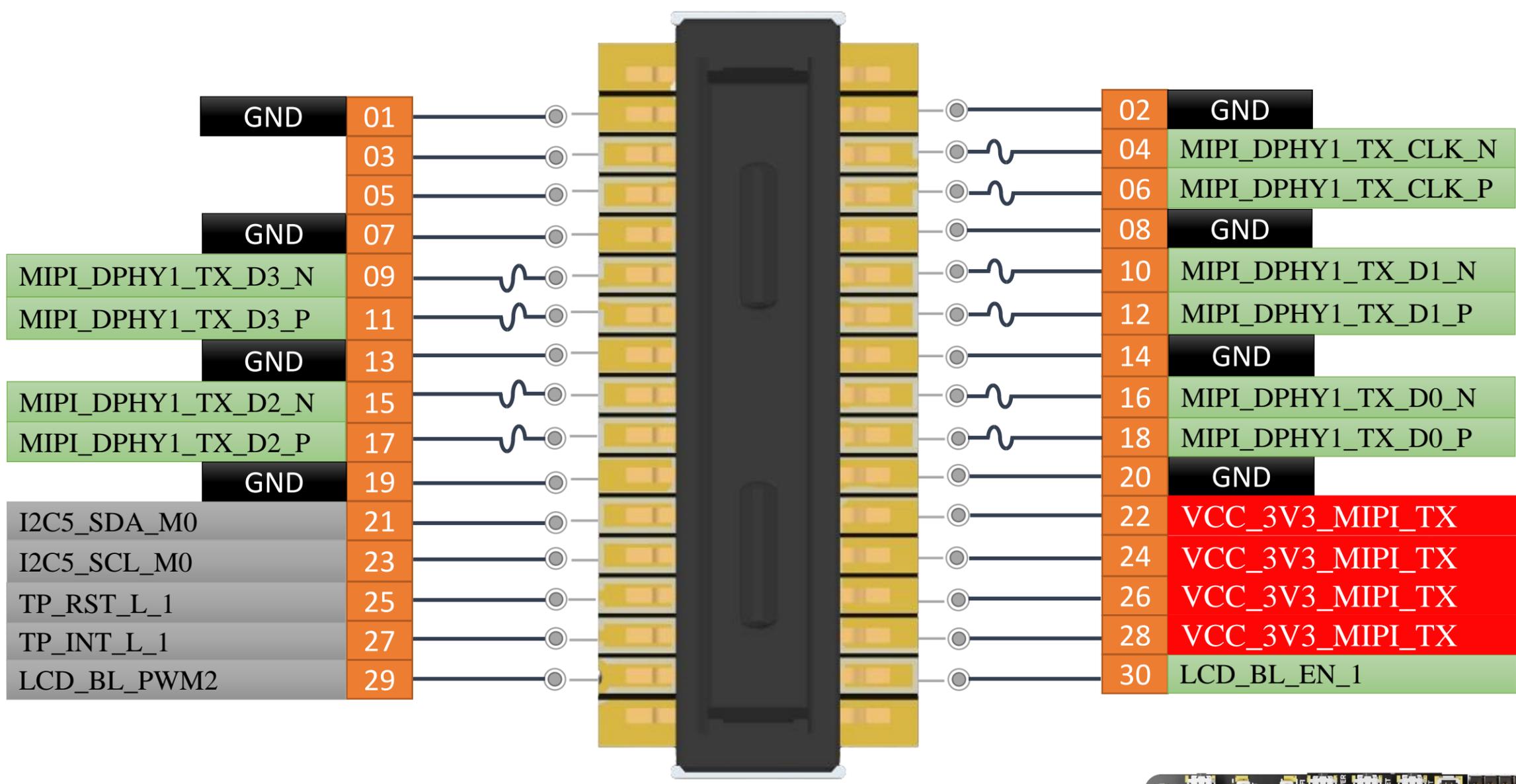
30 Pin

0.4mm Pitch

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

# MIPI D-PHY0 TX





On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

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

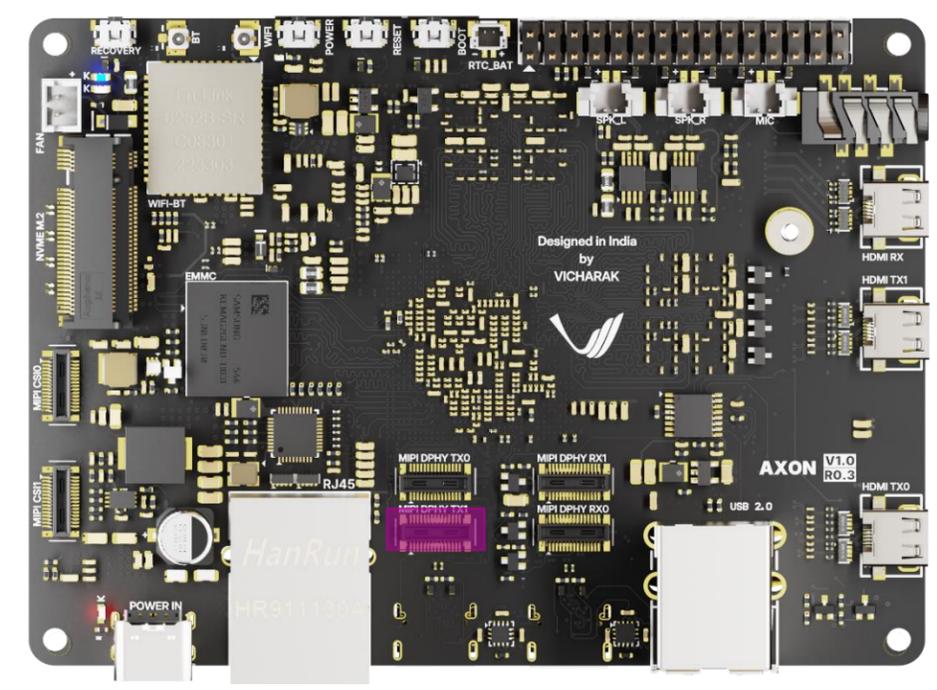
Mating Connector

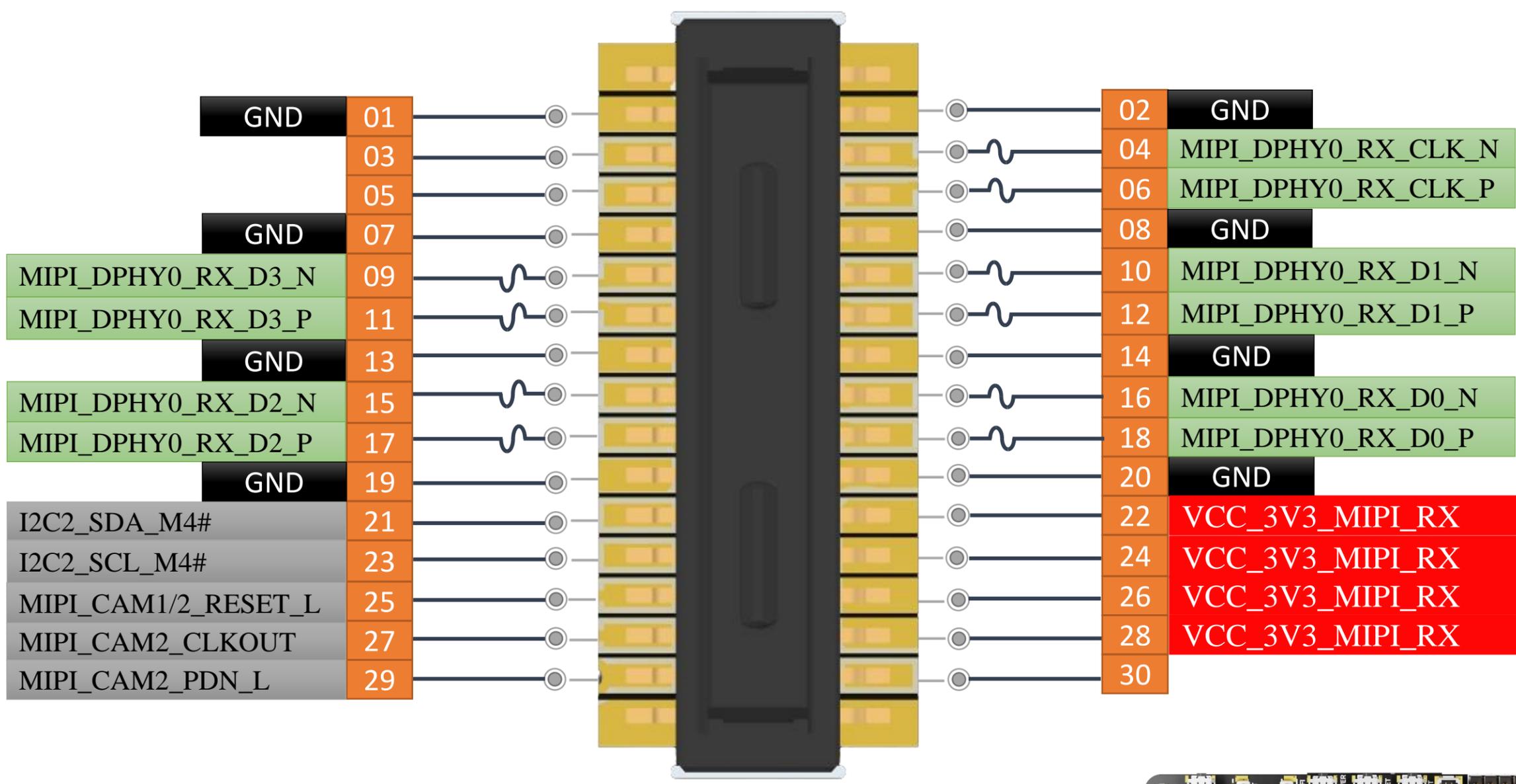
30 Pin

0.4mm Pitch

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

# MIPI D-PHY1 TX





### On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

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

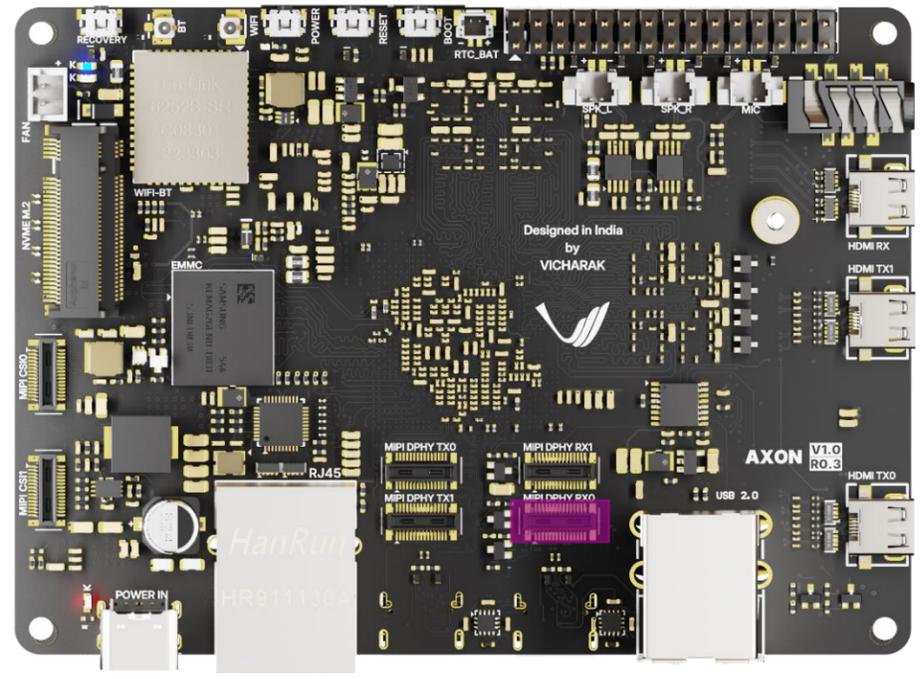
### Mating Connector

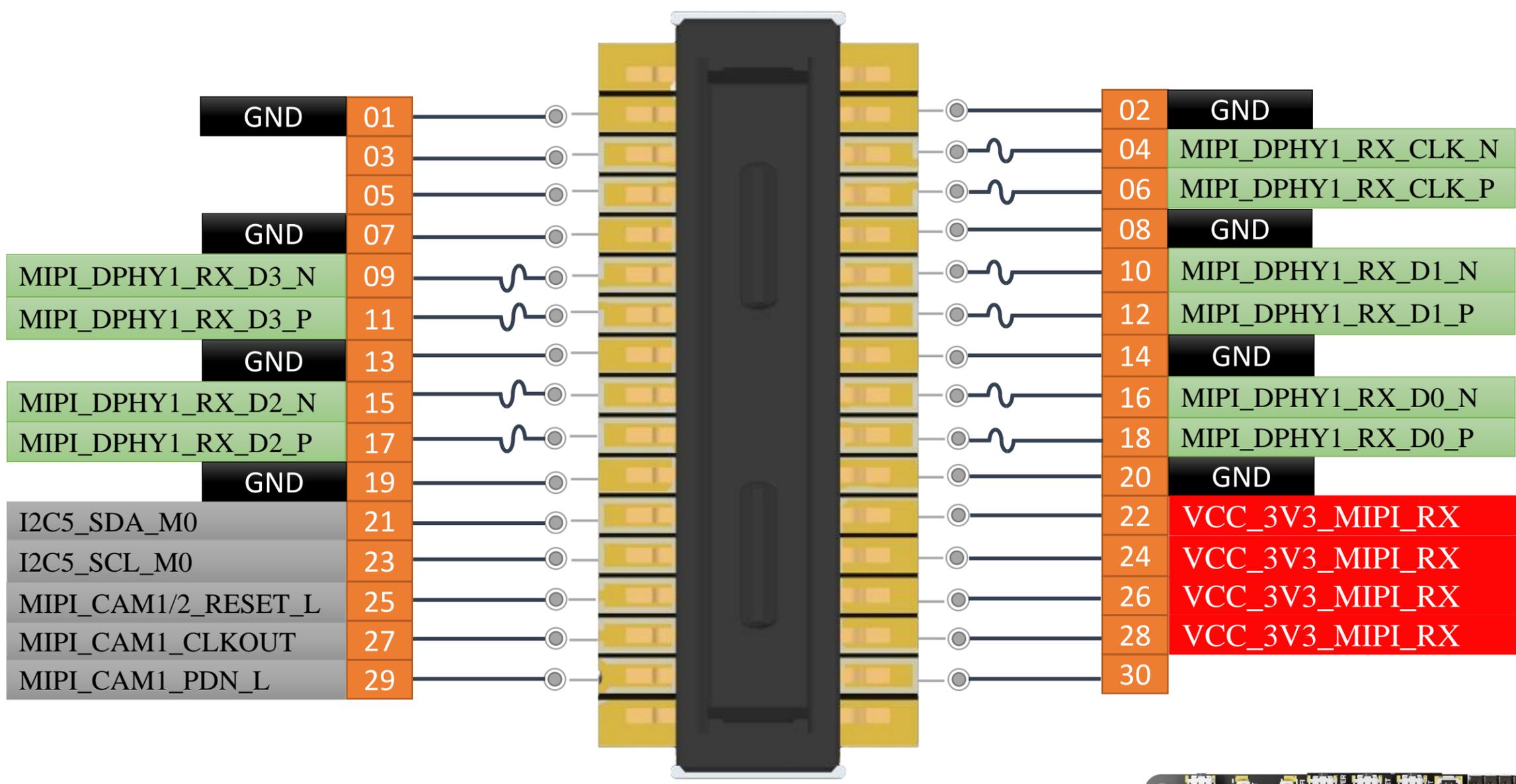
30 Pin

0.4mm Pitch

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

## MIPI D-PHY0 RX





On-Board Connector

30 Pin

0.4mm Pitch

Current Rating (Max): 300mA each pin

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

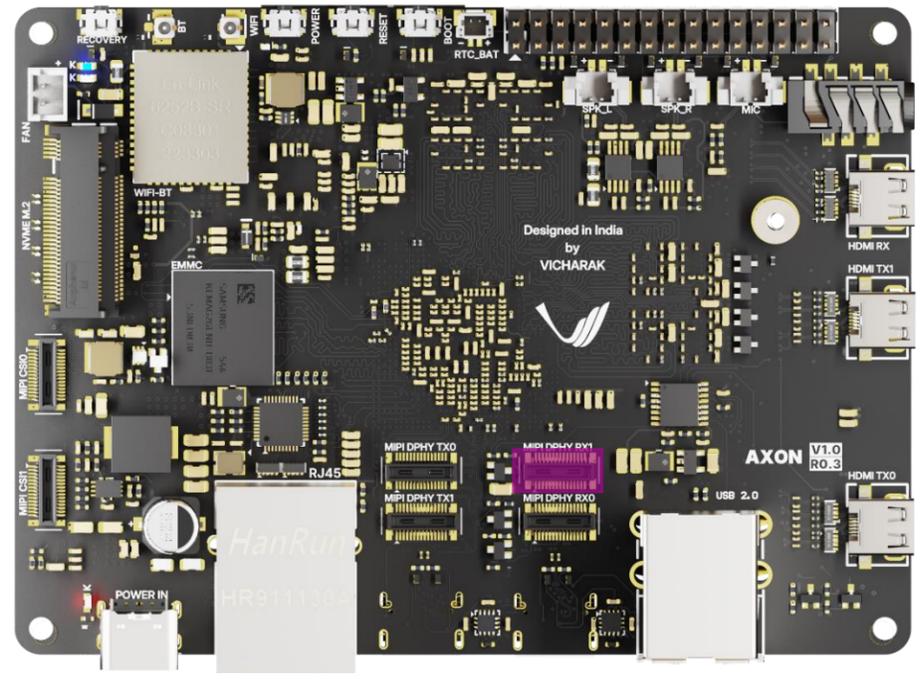
Mating Connector

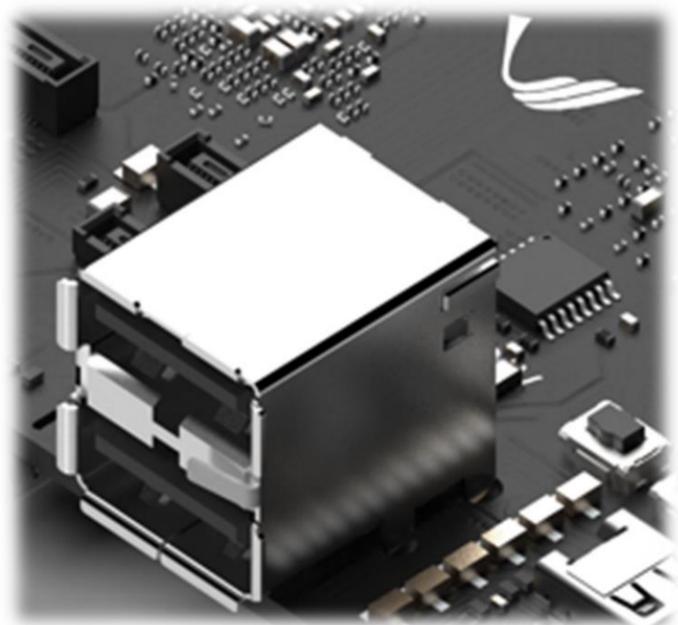
30 Pin

0.4mm Pitch

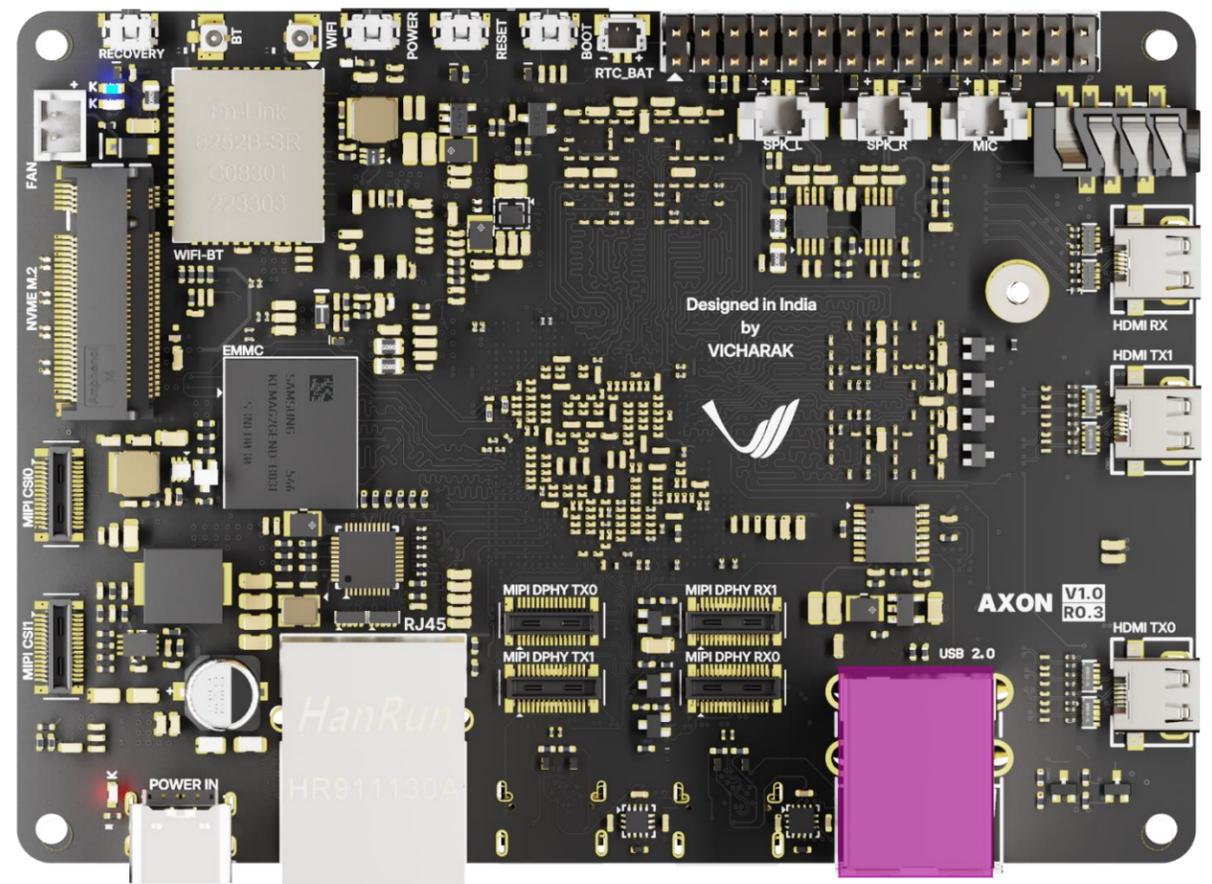
MPN : DF40C(3.5)-30DS-0.4V(51)

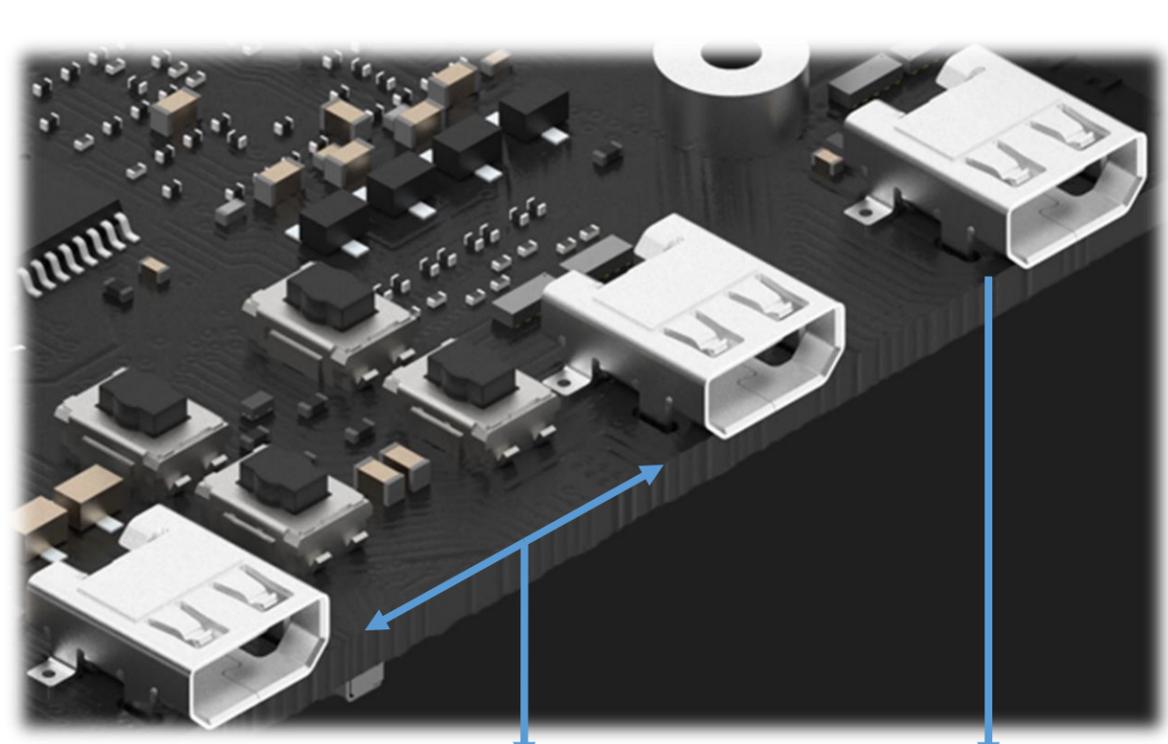
MIPI D-PHY1 RX





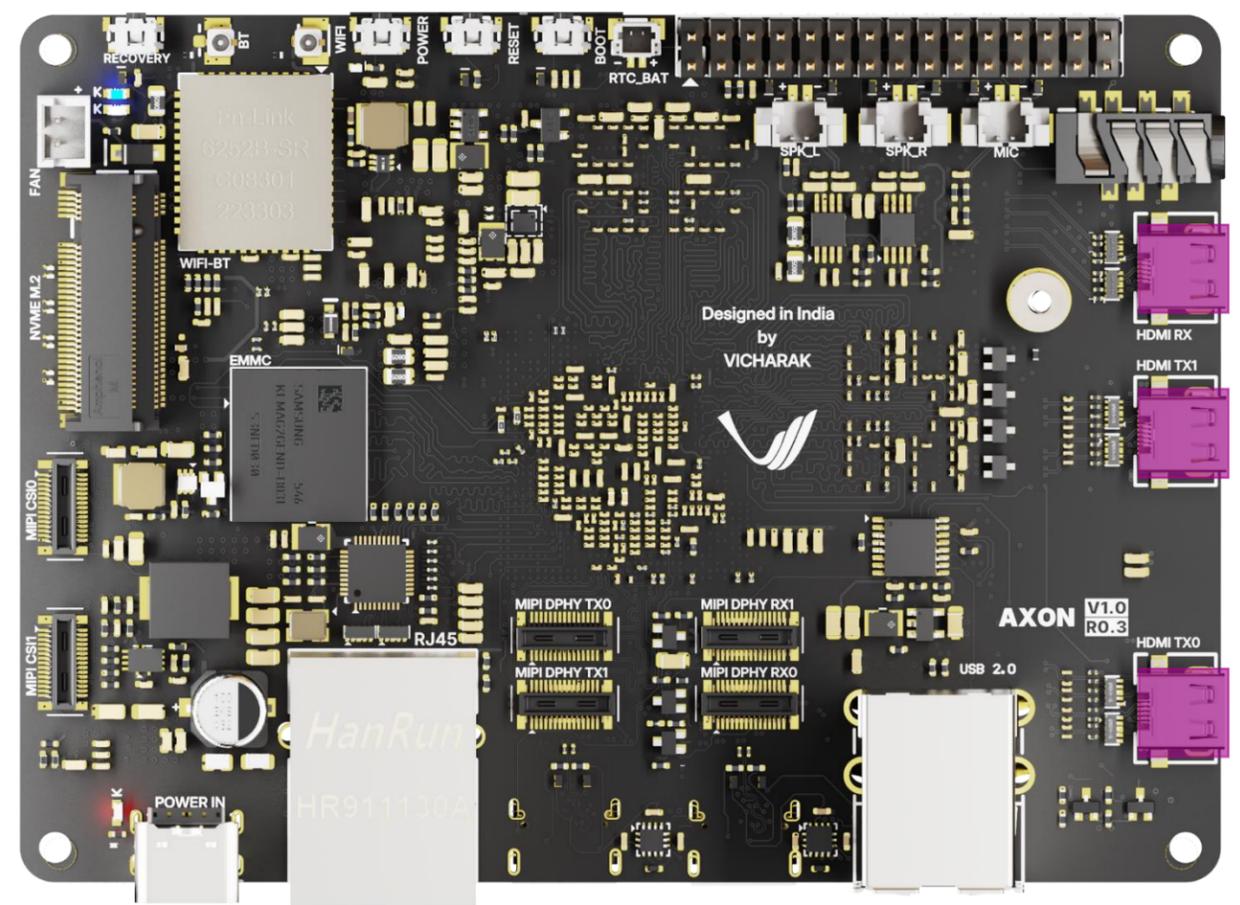
2x USB2.0 HOST

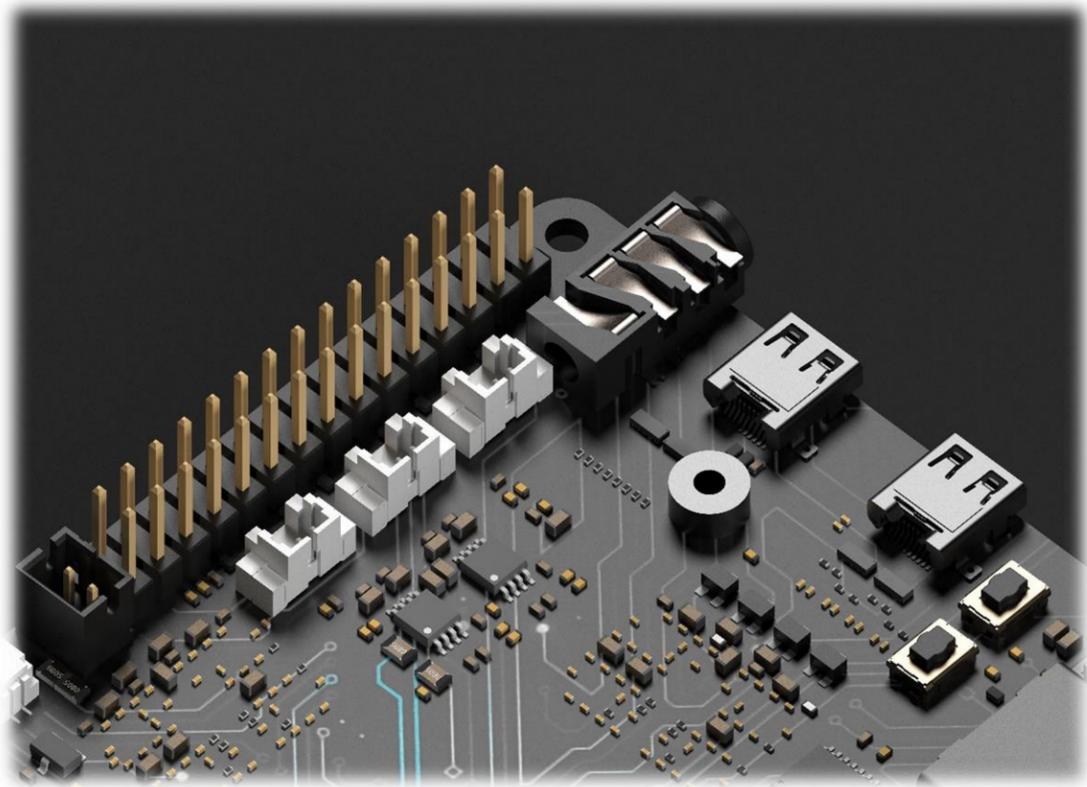




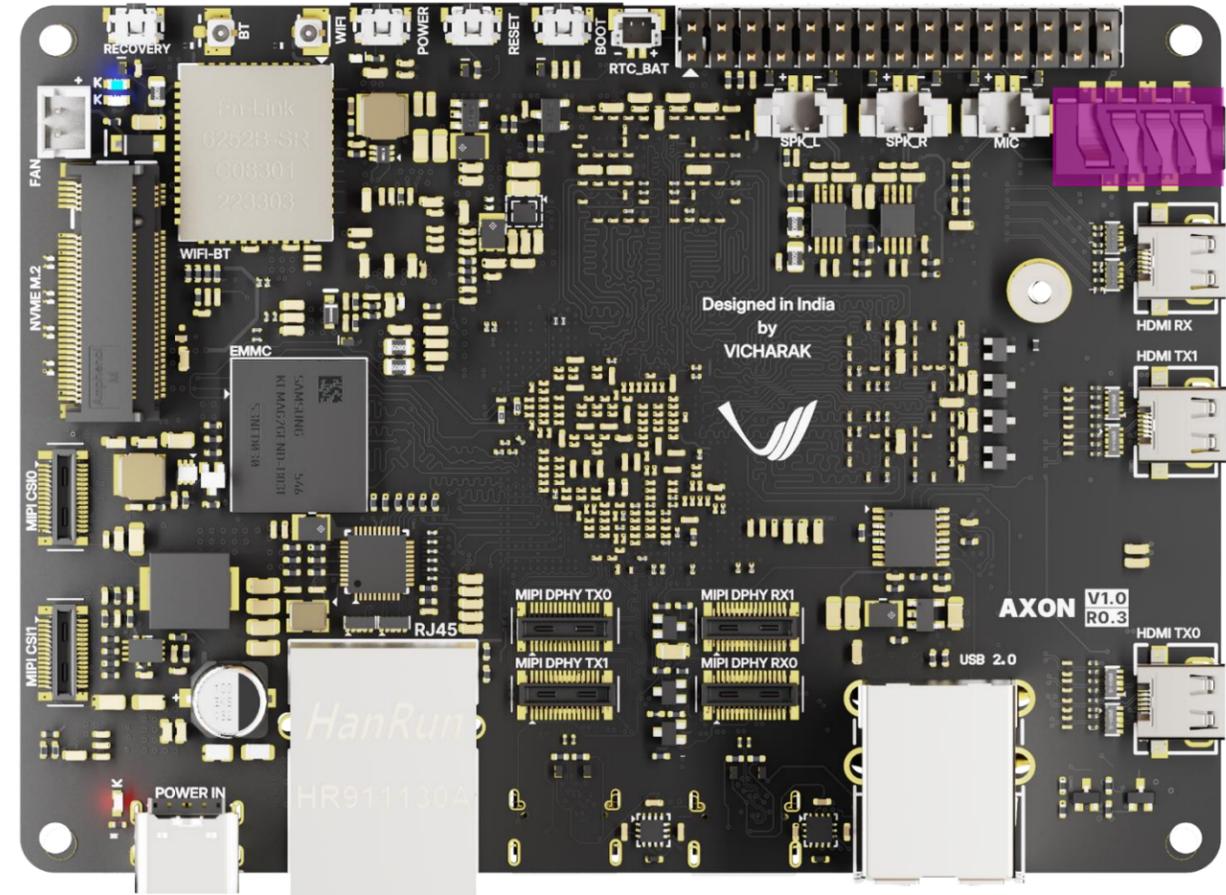
2x HDMI TX

HDMI RX

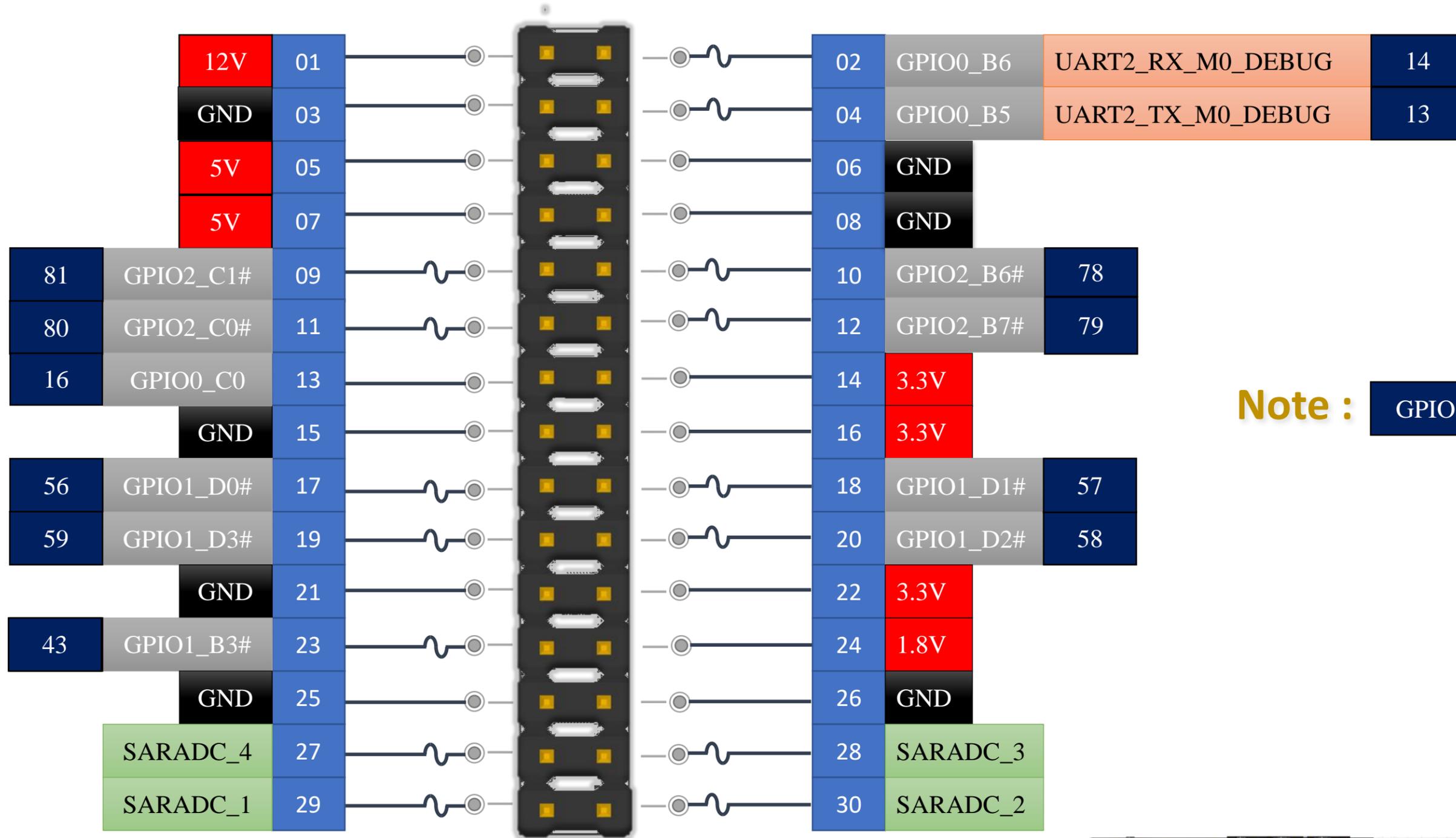




**3.5mm Audio Jack with MIC**

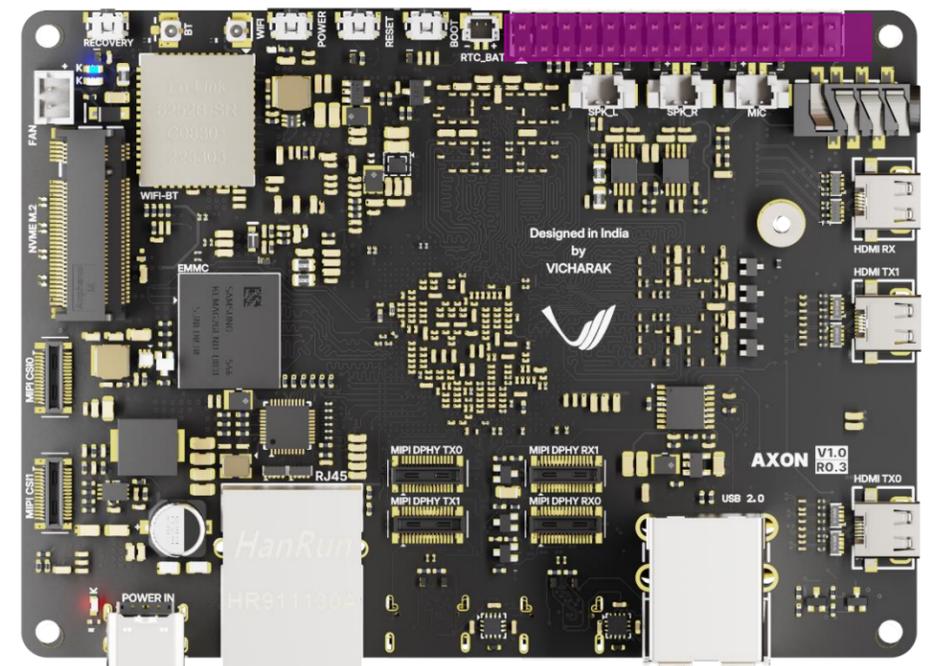


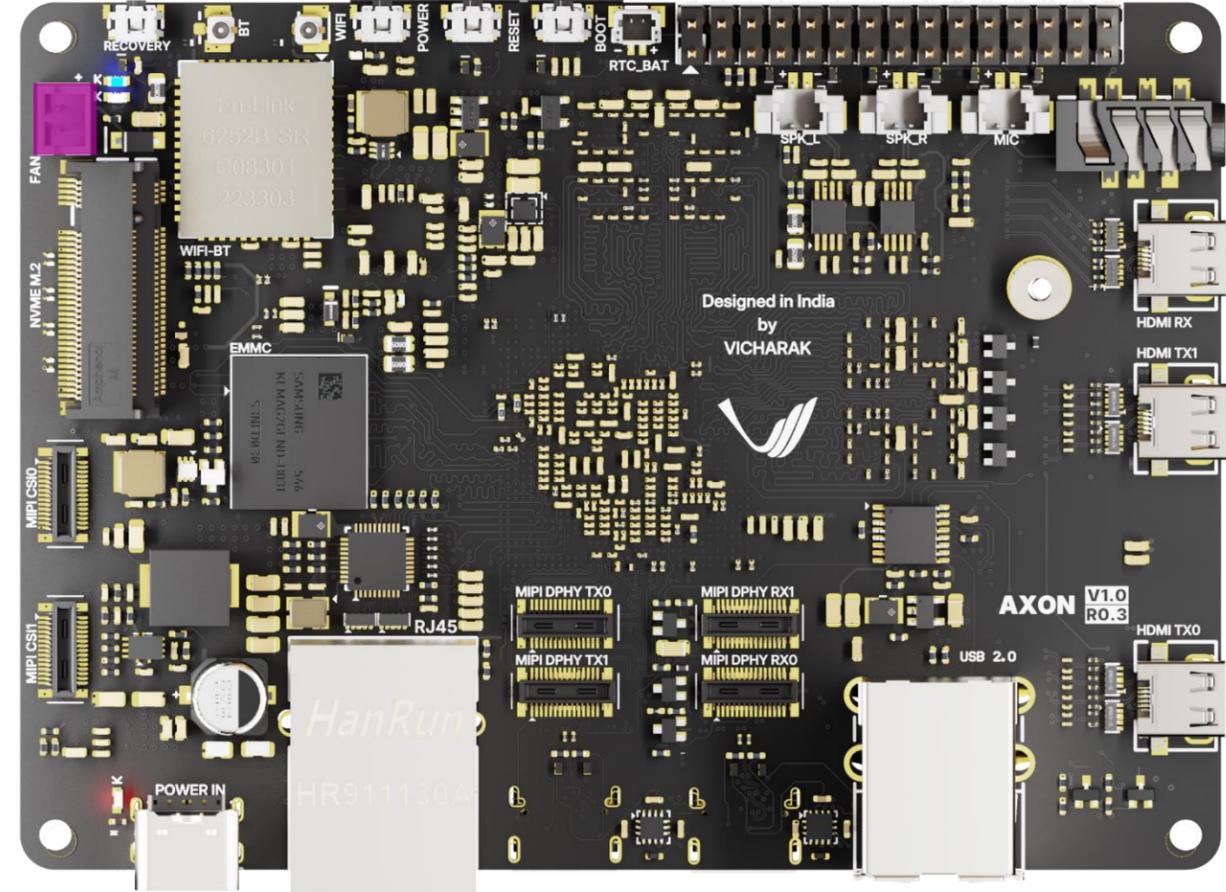
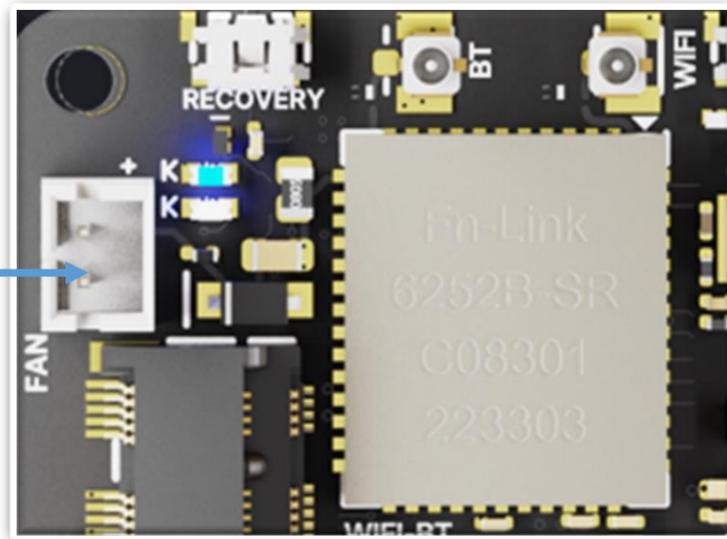




**Note :** GPIO Pin Number

## RK3588 30Pin GPIO Header 2.54mm





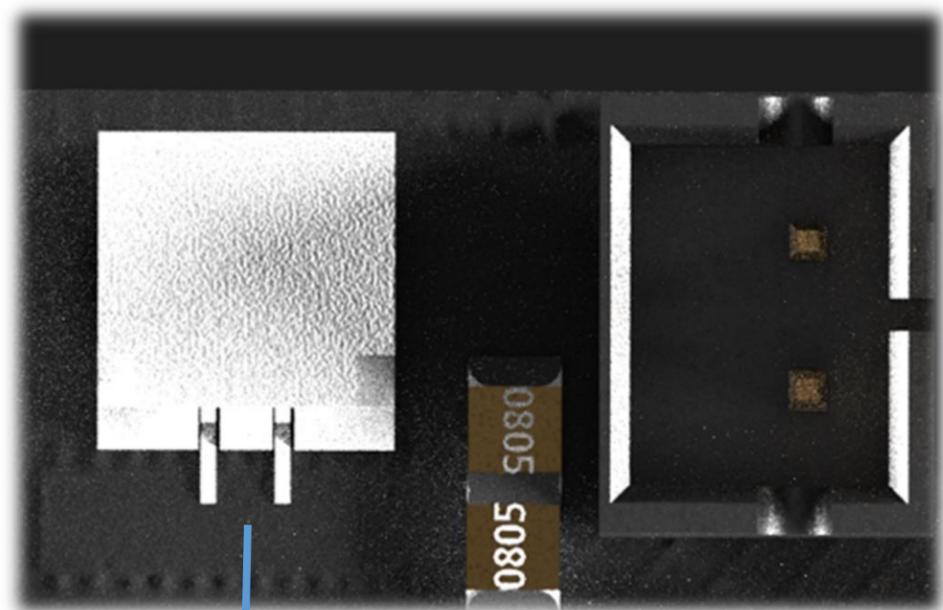
## Fan Connector

FAN Connector

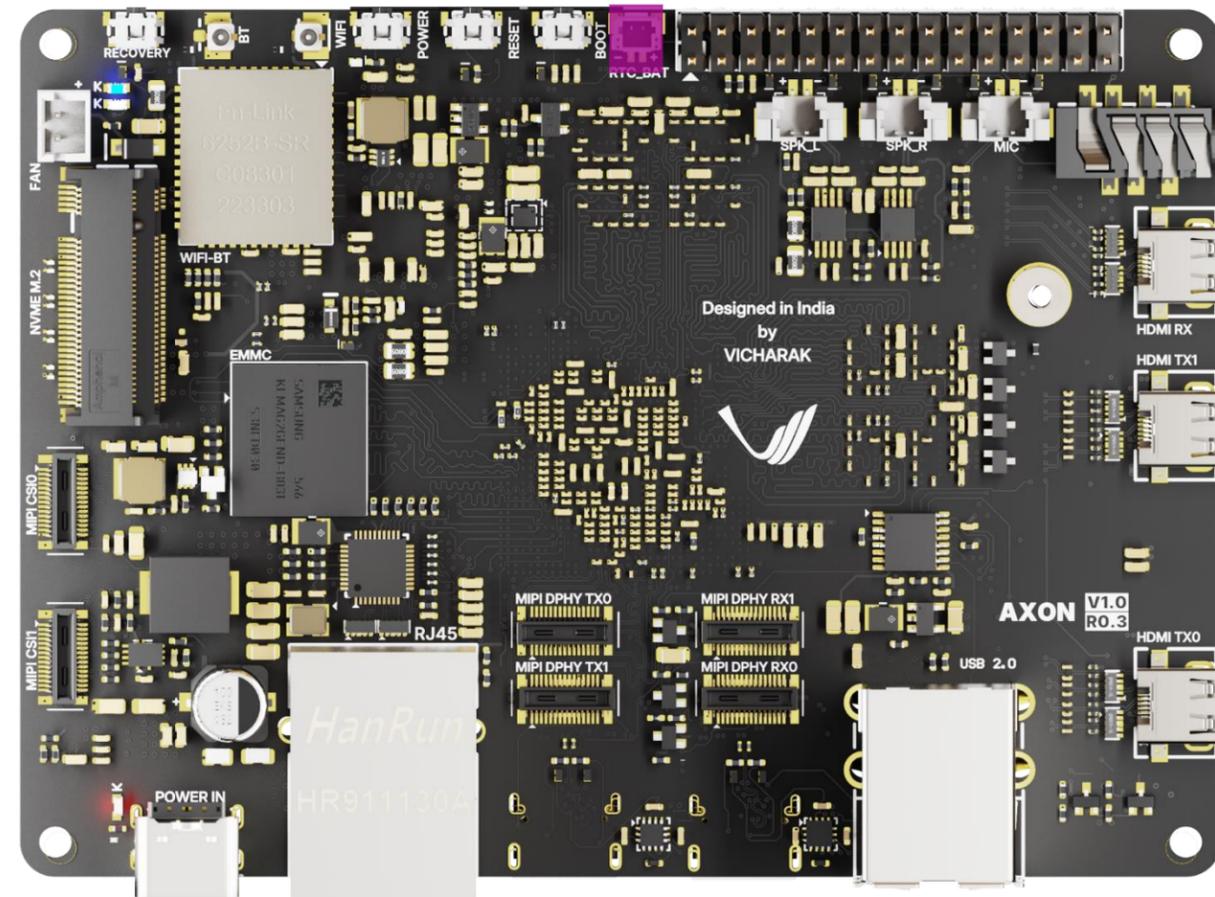
2 Pin

2mm Pitch

Current rating (max): 2A



RTC Battery Connector

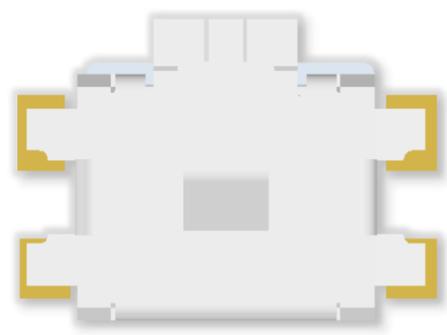


JST Connector

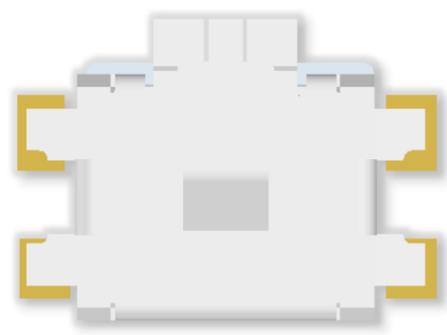
2 Pin

1mm Pitch

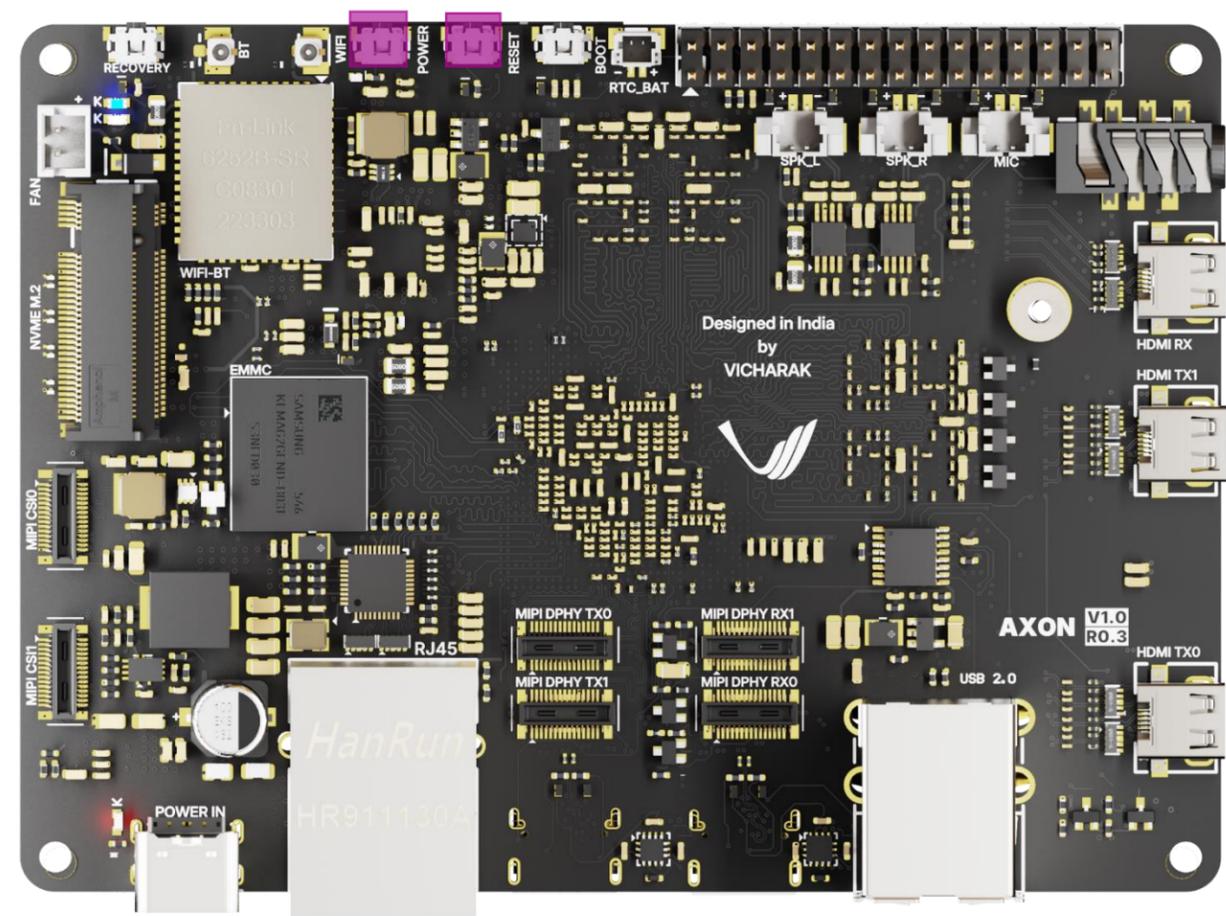
Current rating(max): 1A



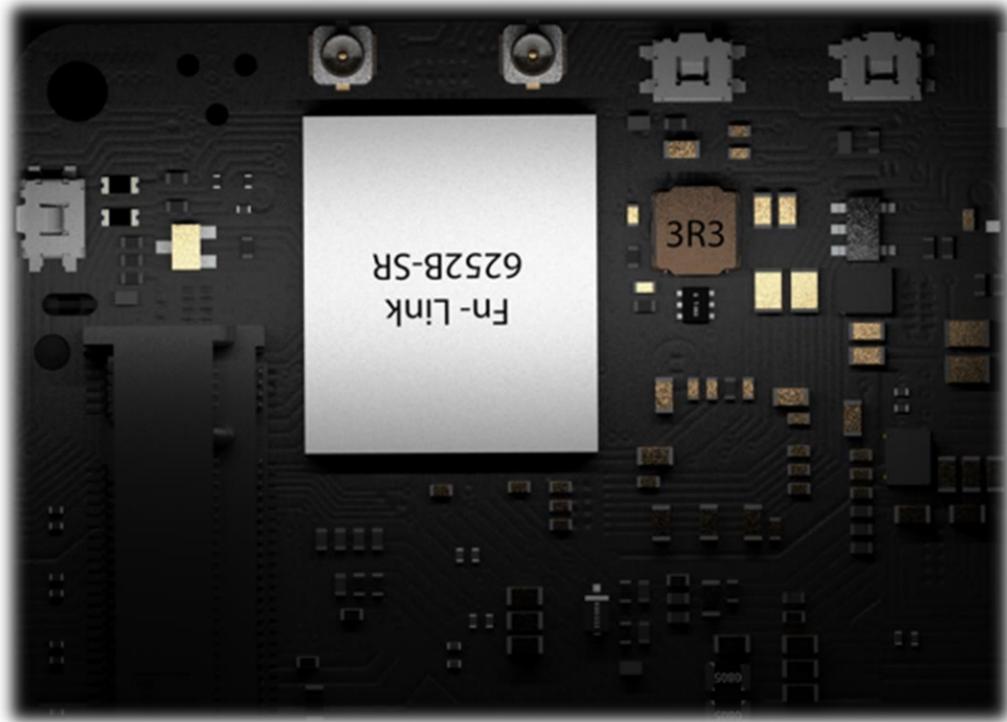
**PWR  
on/off  
Key**



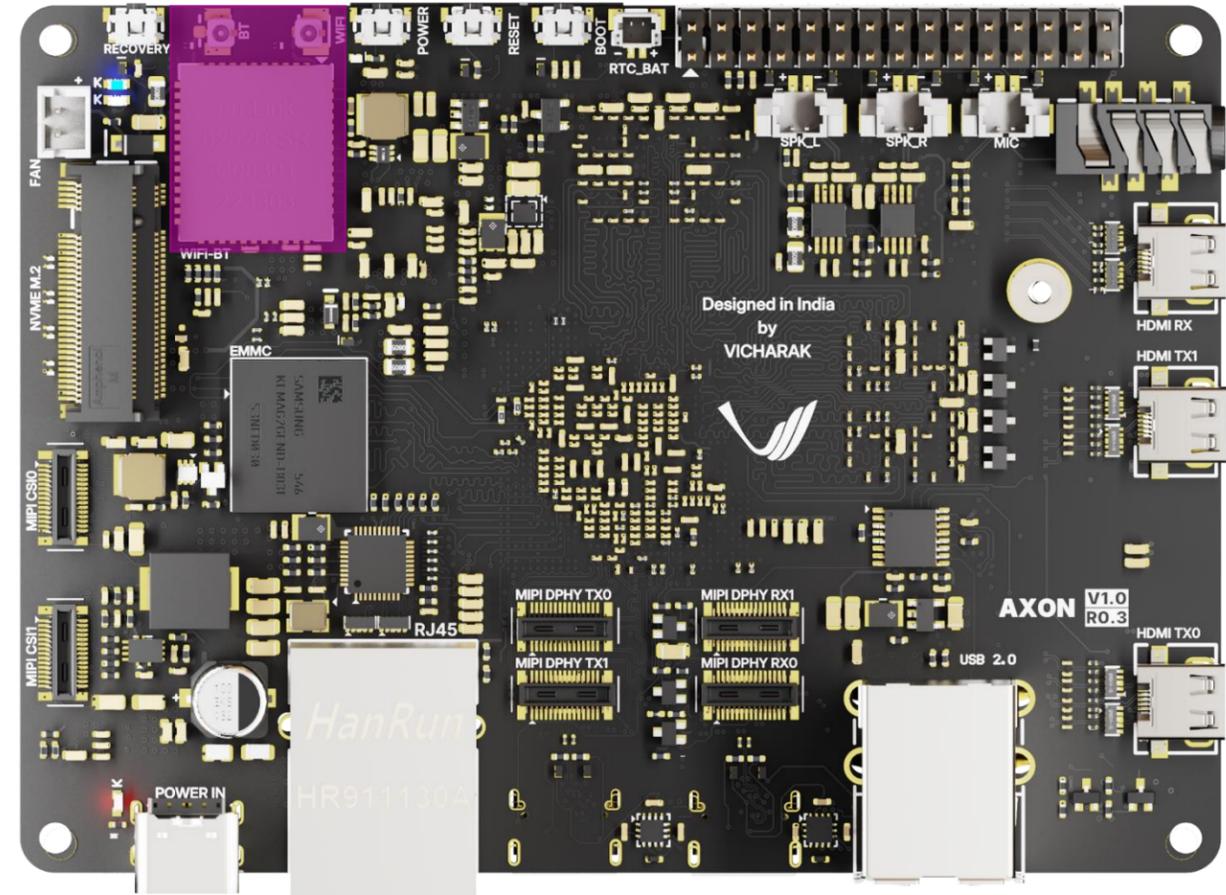
**Reset  
Key**



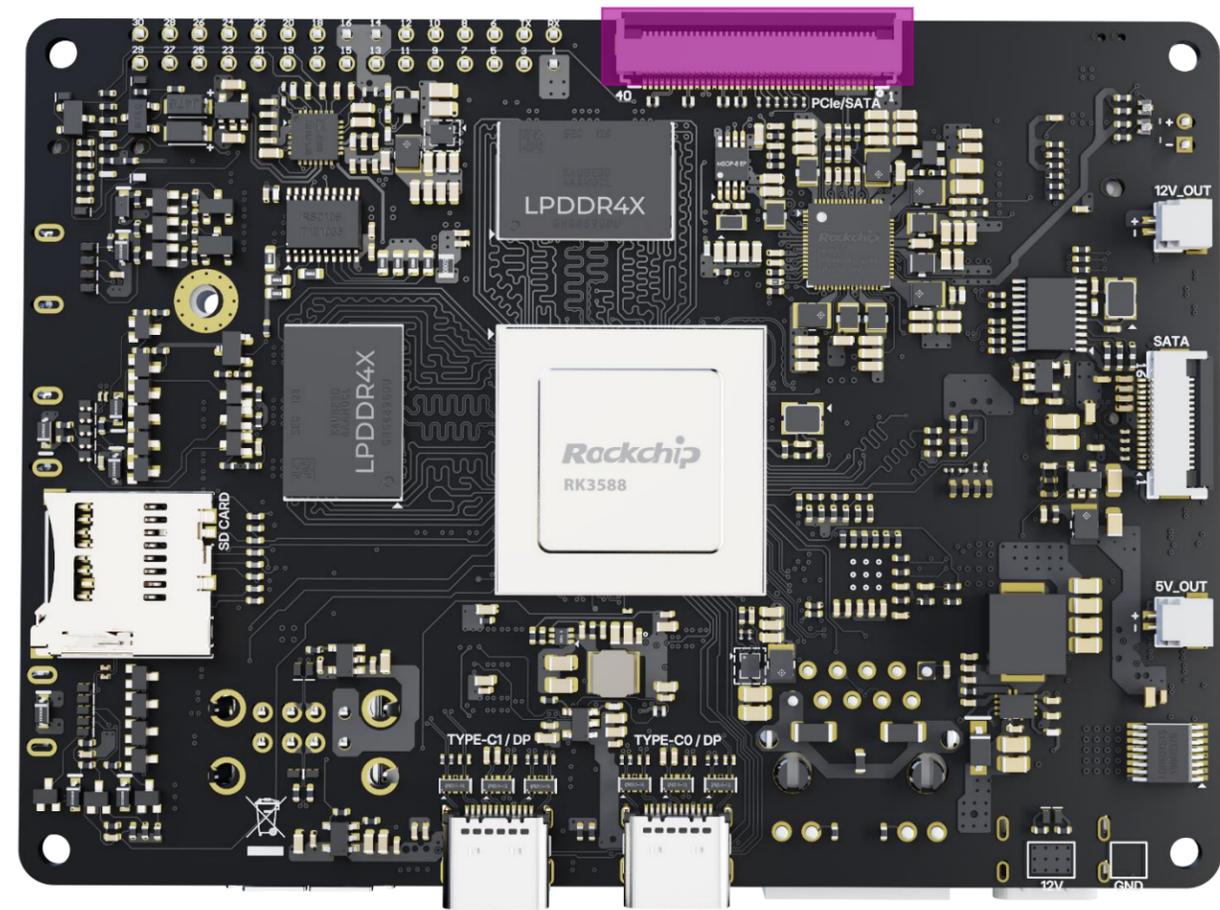
BT WIFI



6252B-SR Wifi 6 BT5.2 Module



01	GND
02-07	VCC_3.3V
08-12	GND
13	PCIEx1_1_CLKREQn_M1_L
14	GND
15	PCIEx1_1_WAKEn_M1_L
16	PCIEx1_1_PERSTn_M1_L
17	GND
18	PCIEX1_2_CLKREQn_M1_L
19	PCIEX1_2_WAKEn_M1_L
20	PCIEX1_2_PERSTn_M1_L
21	GND
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

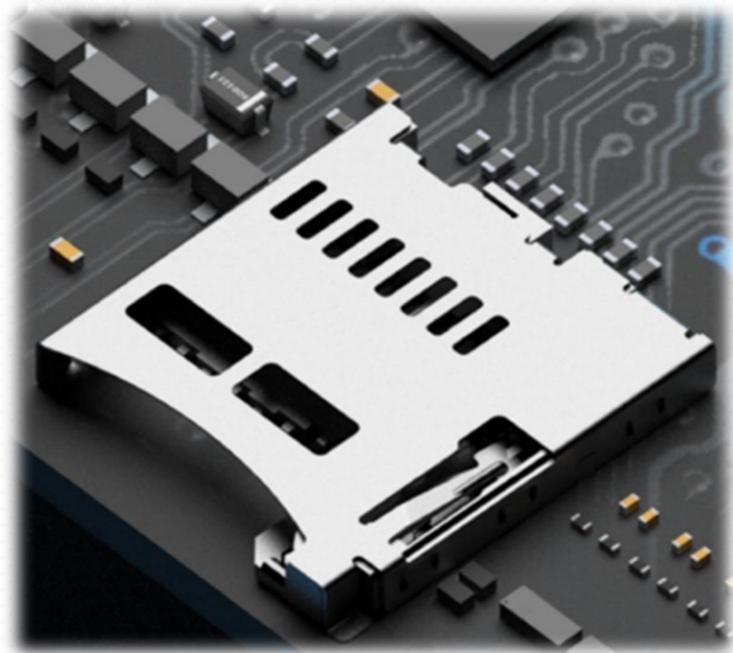
40 Pin

0.5mm Pitch

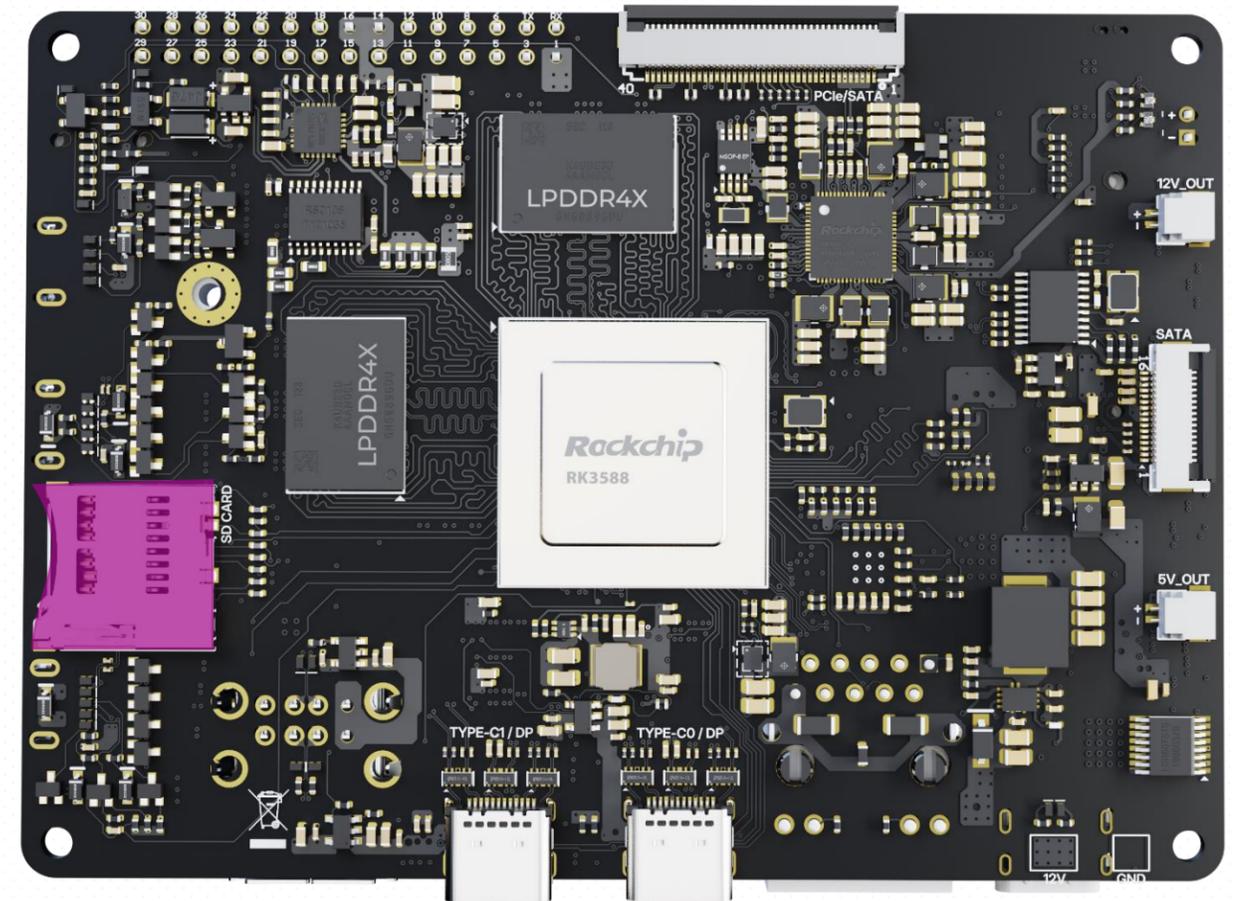
Impedance 85 Ohm

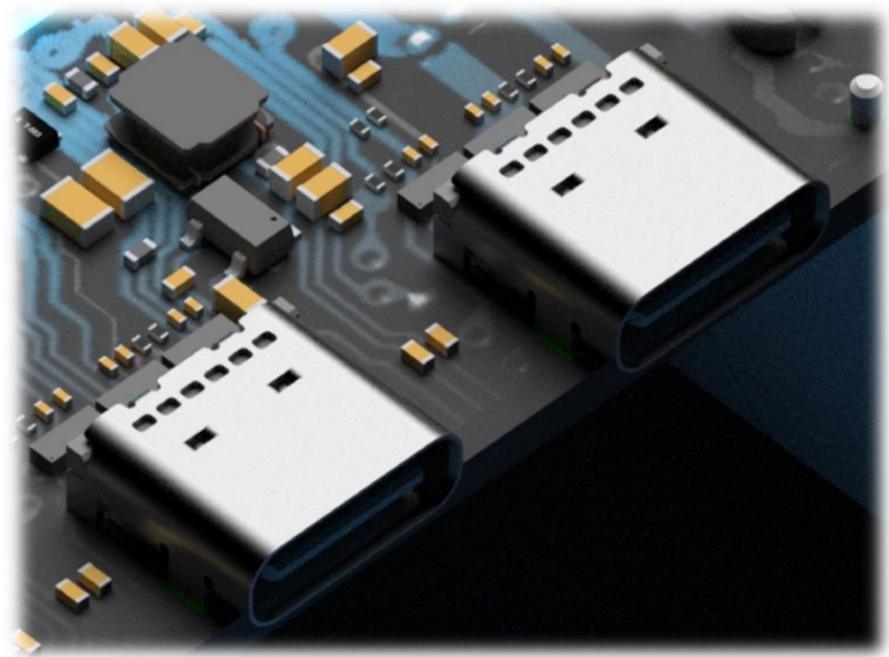
**NOTE:-** If you want to use USB/SATA, you can take 5V directly from the 5V\_OUT connector on the AXON board, or you can use a boost converter on the daughterboard to convert 3.3V to 5V, alternatively, you can supply 5V externally.

**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

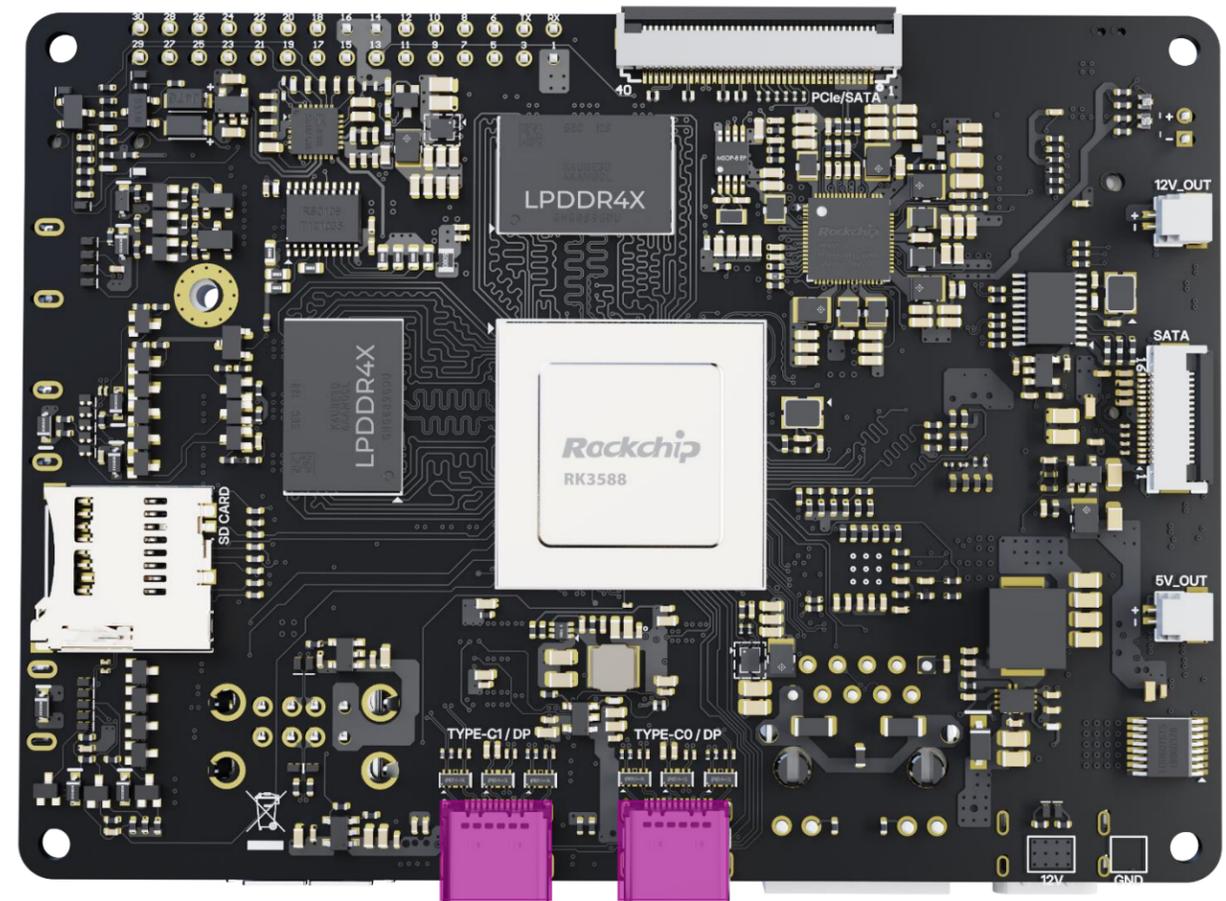


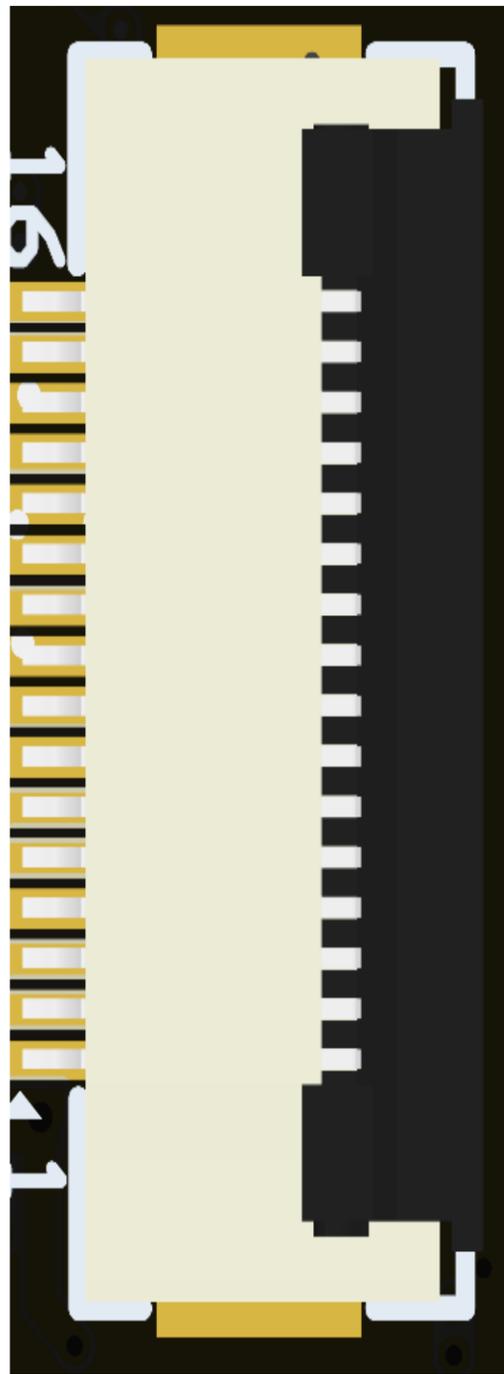
**Push-Push Type MicroSD Card Slot**



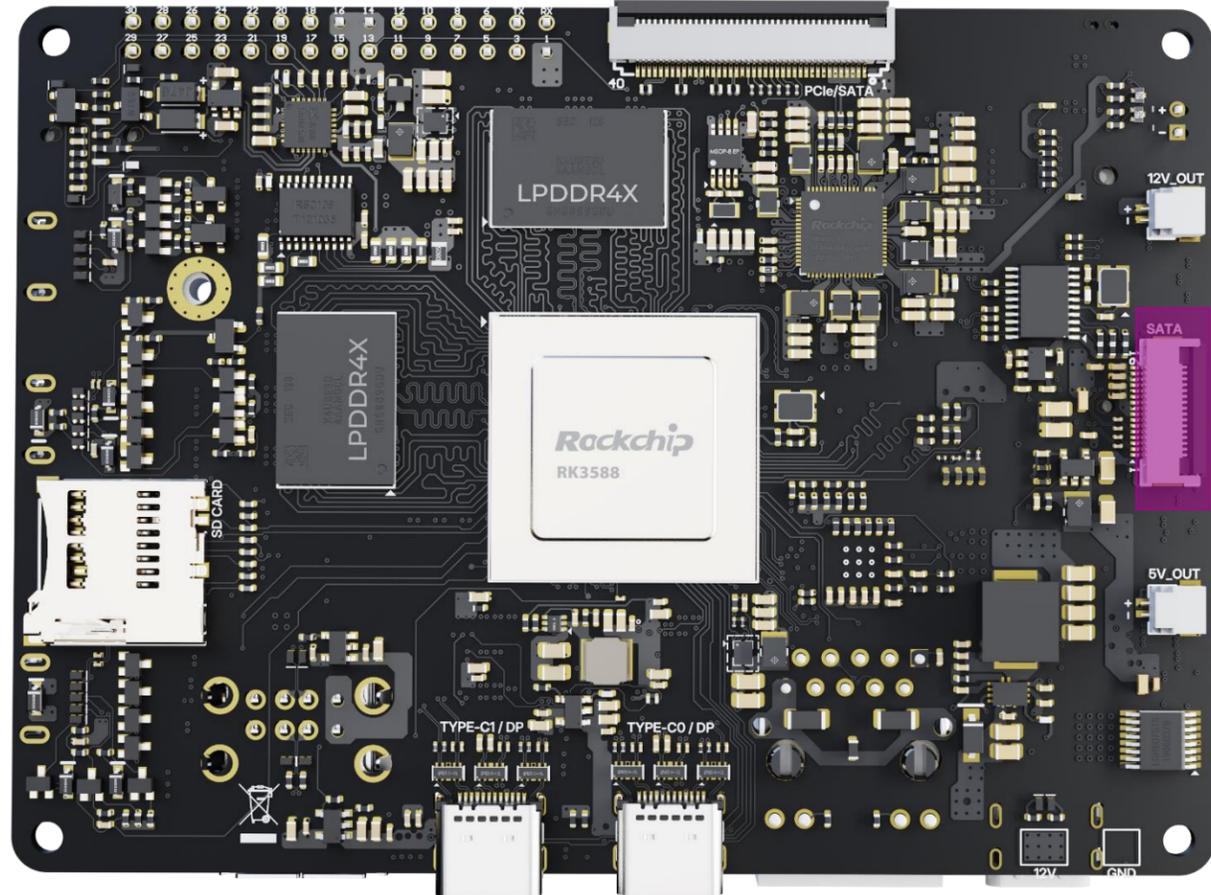


TYPE-C /DP Port





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



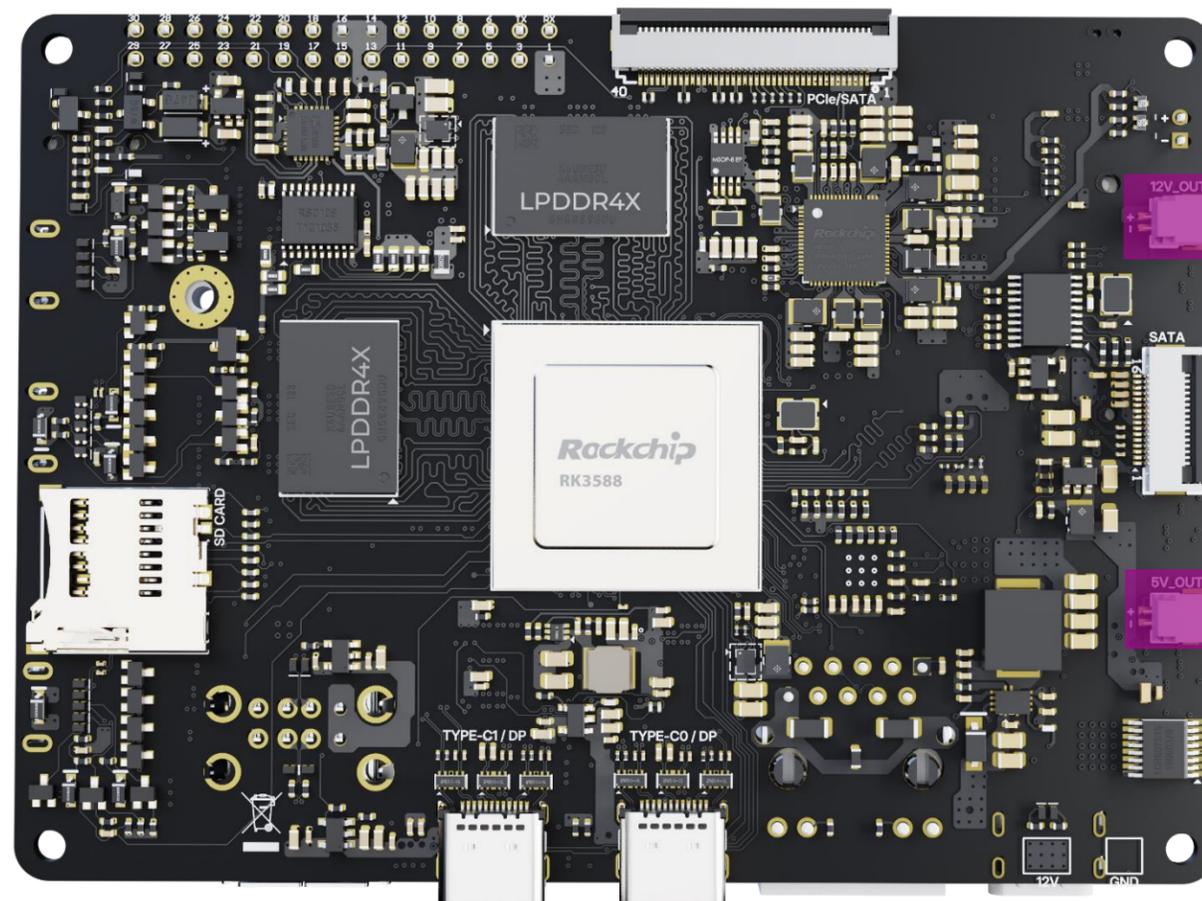
## SATA 3.0, 16 Pin FPC Connector

### 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