0_CTRL[6:0]
0 0_QSFP_MOD_SELn
1 0_QSFP_RSTn
2
3
4
5 0_QSFP_MOD_PRSn
6 0_QSFP_INTRn
0 0_QSFP_LP_MODE

0_Tx[7:0]
0 0_QSFP_Tx1p
1 0_QSFP_Tx1n
2 0_QSFP_Tx2p
3 0_QSFP_Tx2n
4 0_QSFP_Tx3p
5 0_QSFP_Tx3n
6 0_QSFP_Tx4p
7 0_QSFP_Tx4n

0_Rx[7:0]
0 0_QSFP_Rx1p
1 0_QSFP_Rx1n
2 0_QSFP_Rx2p
3 0_QSFP_Rx2n
4 0_QSFP_Rx3p
5 0_QSFP_Rx3n
6 0_QSFP_Rx4p
7 0_QSFP_Rx4n

1_CTRL[6:0]
0 1_QSFP_MOD_SELn
1 1_QSFP_RSTn
2
3
4 1_QSFP_MOD_PRSn
5 1_QSFP_INTRn
6 1_QSFP_LP_MODE

1_Tx[7:0]
0 1_QSFP_Tx1p
1 1_QSFP_Tx1n
2 1_QSFP_Tx2p
3 1_QSFP_Tx2n
4 1_QSFP_Tx3p
5 1_QSFP_Tx3n
6 1_QSFP_Tx4p
7 1_QSFP_Tx4n

1_Rx[7:0]
0 1_QSFP_Rx1p
1 1_QSFP_Rx1n
2 1_QSFP_Rx2p
3 1_QSFP_Rx2n
4 1_QSFP_Rx3p
5 1_QSFP_Rx3n
6 1_QSFP_Rx4p
7 1_QSFP_Rx4n

2_CTRL[6:0]
0 2_QSFP_MOD_SELn
1 2_QSFP_RSTn
2
3
4 2_QSFP_MOD_PRSn
5 2_QSFP_INTRn
6 2_QSFP_LP_MODE

2_Tx[7:0]
0 2_QSFP_Tx1p
1 2_QSFP_Tx1n
2 2_QSFP_Tx2p
3 2_QSFP_Tx2n
4 2_QSFP_Tx3p
5 2_QSFP_Tx3n
6 2_QSFP_Tx4p
7 2_QSFP_Tx4n

2_Rx[7:0]
0 2_QSFP_Rx1p
1 2_QSFP_Rx1n
2 2_QSFP_Rx2p
3 2_QSFP_Rx2n
4 2_QSFP_Rx3p
5 2_QSFP_Rx3n
6 2_QSFP_Rx4p
7 2_QSFP_Rx4n

QSFP_PWR_CTRL[5:0]
0 0_QSFP_FAULTn
1 0_QSFP_PWR_EN
2 1_QSFP_FAULTn
3 1_QSFP_PWR_EN
4 2_QSFP_FAULTn
5 2_QSFP_PWR_EN

Sh173_1
Sh174_1
Sh175_1
TPS2557DRBR
HI0805R800R-10
INDUCTOR0805
cap0603
cap0402
res0402
4.7K
54.9k
3.4K
22uF
10uF
1uF
0.1uF

0_QSFP_FAULTn
0_QSFP_PWR_EN
1_QSFP_FAULTn
1_QSFP_PWR_EN
2_QSFP_FAULTn
2_QSFP_PWR_EN

QSFP_3_4_5
0_VCC 0_VCCR 0_VCCT 0_MOD_SELn 0_RSTn 0_SCL 0_SDA 0_MOD_PRSn 0_INTRn 0_LP_MODE 0_MTH1 0_MTH2
0_TX1p 0_TX1n 0_TX2p 0_TX2n 0_TX3p 0_TX3n 0_TX4p 0_TX4n
0_GND1 0_GND2 0_GND3 0_GND4 0_GND5 0_GND6 0_GND7 0_GND8 0_GND9 0_GND10 0_GND11 0_GND12
0_RX1p 0_RX1n 0_RX2p 0_RX2n 0_RX3p 0_RX3n 0_RX4p 0_RX4n
1_VCC 1_VCCR 1_VCCT 1_MOD_SELn 1_RSTn 1_SCL 1_SDA 1_MOD_PRSn 1_INTRn 1_LP_MODE 1_MTH1 1_MTH2
1_TX1p 1_TX1n 1_TX2p 1_TX2n 1_TX3p 1_TX3n 1_TX4p 1_TX4n
1_GND1 1_GND2 1_GND3 1_GND4 1_GND5 1_GND6 1_GND7 1_GND8 1_GND9 1_GND10 1_GND11 1_GND12
1_RX1p 1_RX1n 1_RX2p 1_RX2n 1_RX3p 1_RX3n 1_RX4p 1_RX4n
2_VCC 2_VCCR 2_VCCT 2_MOD_SELn 2_RSTn 2_SCL 2_SDA 2_MOD_PRSn 2_INTRn 2_LP_MODE 2_MTH1 2_MTH2
2_TX1p 2_TX1n 2_TX2p 2_TX2n 2_TX3p 2_TX3n 2_TX4p 2_TX4n
2_GND1 2_GND2 2_GND3 2_GND4 2_GND5 2_GND6 2_GND7 2_GND8 2_GND9 2_GND10 2_GND11 2_GND12
2_RX1p 2_RX1n 2_RX2p 2_RX2n 2_RX3p 2_RX3n 2_RX4p 2_RX4n
CAGE_1 CAGE_3 CAGE_5 CAGE_7 CAGE_9 CAGE_11 CAGE_13 CAGE_15 CAGE_17 CAGE_19 CAGE_21 CAGE_23 CAGE_25
CAGE_2 CAGE_4 CAGE_6 CAGE_8 CAGE_10 CAGE_12 CAGE_14 CAGE_16 CAGE_18 CAGE_20 CAGE_22 CAGE_24 CAGE_26
QSFPx3_AND_CAGE

Sh17_2_1 Sh17_2_2 Sh17_2_3 Sh17_2_4 Sh17_2_5 Sh17_2_6 Sh17_2_7 Sh17_2_8 Sh17_2_9 Sh17_2_10 Sh17_2_11 Sh17_2_12 Sh17_2_13 Sh17_2_14 Sh17_2_15 Sh17_2_16
10K
0.1u
FXMA2102
VCCA VCCB A0 B0 A1 B1 OE GND

To S10
S10_I2C[1:0]

QSFP+ Module
QSFP+ Cage Molex 0747680212
iPASS R/A Connector, 38-pin

Engineer: M. Bogdan	KOTO-OFC-2		
Drawn by: M. Bogdan	QSFP BLOCK 2		
DATE: 10/10/2020	The University of Chicago		
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