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2.	Power & Connectors
3.	P3H2441HN_VLT_Temp Sensor

Revisions			
Rev	Description	Date	Approved
X1	Initial Draft	25/10/2024	Eric Lu
A	A085 Release	29/10/2024	Eric Lu
A1	Replace D3, D4, J4, J5, J7, J8, J9, J10, J11, J12, J36, J37, J38 with low cost part	29/3/2025	Eric Lu

P3H2441HN-ARD

P3H2441HN I3C Hub Evaluation Board

Jumper Table

REF DES	JUMPER(DEFAULT)	PAGE NAME
JP2,JP3,JP9,JP10	1-2	2. Power & Connectors
JP1	2-3	2. Power & Connectors
JP5,JP6,JP7,JP8	OPEN	2. Power & Connectors
J41,J42,J43,J44	SHORT	2. Power & Connectors
J12,J38	1-3	3. P3H2441HN_VLT_Temp Sensor
JP11	2-3	3. P3H2441HN_VLT_Temp Sensor
J10,J11,J36,J37	3-5	3. P3H2441HN_VLT_Temp Sensor
J17,J20,J32,J35	OPEN	3. P3H2441HN_VLT_Temp Sensor
J3,J18,J19,J30,J31,J33,J34,J40	SHORT	3. P3H2441HN_VLT_Temp Sensor

DNP Table

REF DES	ASSY OPT	PAGE NAME
C7,C8,C17,C18,C19,C20,C21,C22,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,J24,J25,J28,J29,R38,R39,R40,R41,R42,R43,R44,R45,R46,R47,R48,R49,R50,R51,R52,R53,R95,R96,R97,R98	DNP	2. Power & Connectors



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Classification: Company Internal/Proprietary

Designer:
Eric Lu

Drawing Title:
P3H2441HN-ARD

Drawn by:
Nicole Yu

Page Title:
I3C Hub Evaluation Board

Approved:
Eric Lu

Size
C

Document Number
SCH-94072 PDF: SPF-94072

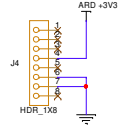
Rev
A1

Date:
Saturday, March 28, 2025

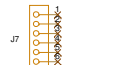
Sheet
1 of 3

ARDUINO INTERFACE

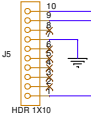
ARDUINO POWER



ARDUINO A0 - A5



ARDUINO D8 - D13



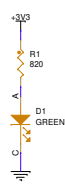
ARDUINO D0 - D7



NOTE: Keep for J4, J5, J7 and J8 the physical position on the layout according to the original Arduino board

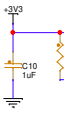
MIMXRT685-EVK MCU board as I2C/I3C controller

PWR



$$LDO V_o = V_{ref} \times (1 + R_{13}/R_{14})$$

$$V_{ref} = 0.8V$$



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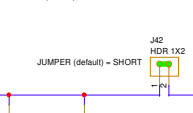
$$V_{ref} = 0.8V$$



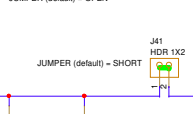
$$Open = +1V8 \ 1-2 = +1V2 \ 2-3 = +1V0$$



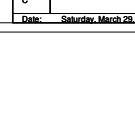
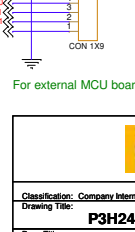
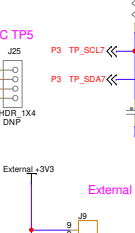
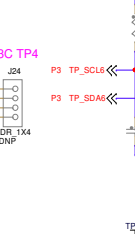
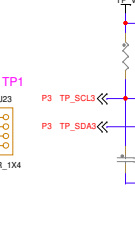
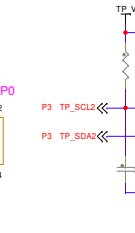
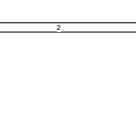
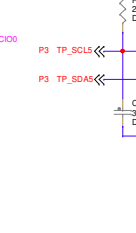
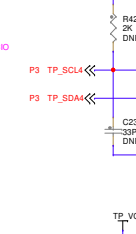
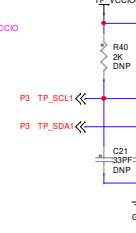
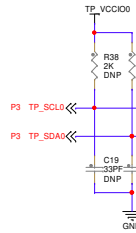
$$Open = +1V8 \ 1-2 = +1V2 \ 2-3 = +1V0$$



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$$Open = +1V8 \ 1-2 = +1V2 \ 2-3 = +1V0$$



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P3H2441HN-ARD

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Power & Connectors

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Rev A1

Date: Saturday, March 29, 2025 Sheet 2 of 3

