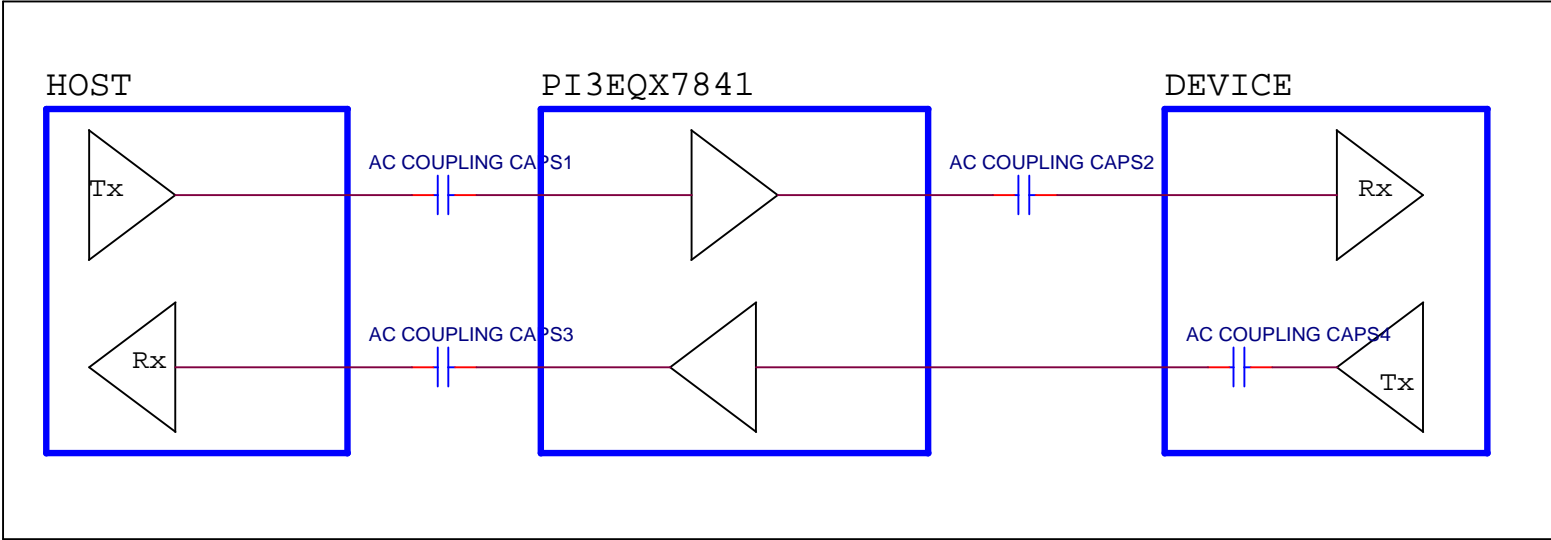


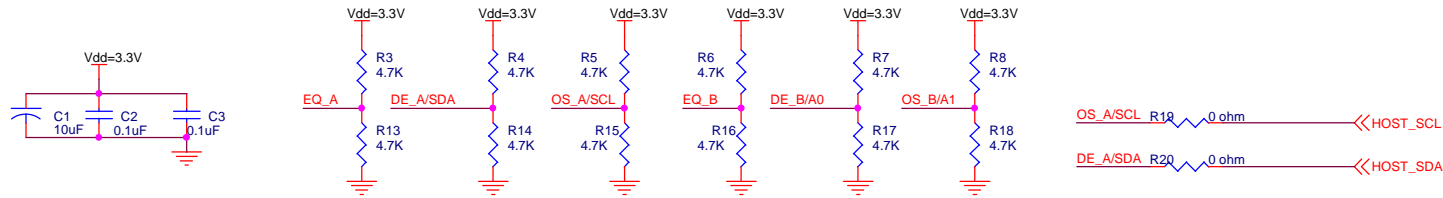
Revision History

Date	History
8/29/2012	First Released
9/25/2012	Modify the pin13 from I2C_EN"#" to I2C_EN

Block Diagram

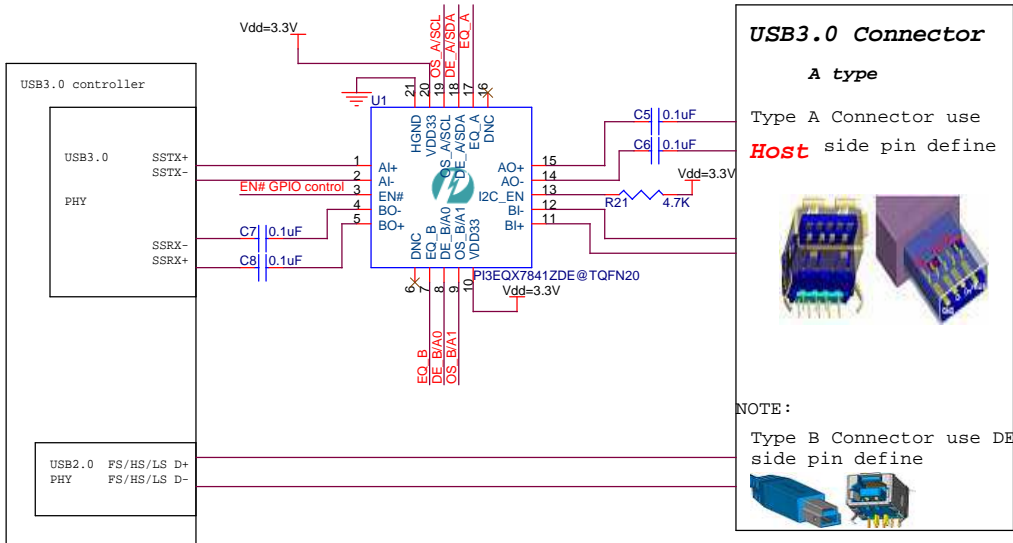


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A	<Doc>	<RevCode>	
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NOTE:  
After PCB layout, output swing, de-emphasis, and Equalizer should be fine tune

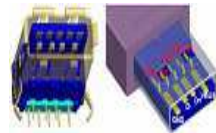
Equalizer setting(pin strap control)		
EQ_A/B	Equalizer	Description
0	3.3 dB	R3 & R6 NC, R13 & R16 on
open	8.1 dB	R3 & R6 NC, R13 & R16 NC
1	11.7 dB	R3 & R6 on, R13 & R16 NC



### USB3.0 Connector

#### A type

Type A Connector use  
**Host** side pin define



NOTE:

Type B Connector use **DEVICE**  
side pin define



### USB3.0 Device

USB3.0 RX+  
USB3.0 RX-

USB3.0 TX+  
USB3.0 TX-

D+ FS/HS/LS USB2.0  
D- FS/HS/LS PHY



Pin Name	Pin function description	
	Pin strap control	I2C control
	<b>I2C_EN = Low (R21=NC)</b>	<b>I2C_EN = High (R21=ON)</b>
DE_B / A0	B_DE = CHB De-emphasis Selection, Adjustment by R7 & R17 See the configuration table of de-emphasis	A0 = I2C programmable address bit A0 Adjustment by R7 & R17
OS_B / A1	B_OS = CHB Swing Selection, Adjustment by R8 & R18 See the configuration table of Swing	A1 = I2C programmable address bit A1 Adjustment by R8 & R18
DE_A / SDA	R20 = NC A_DE = CHA De-emphasis Selection, Adjustment by R4 & R14 See the configuration table of de-emphasis	R20 = ON, R4=NC, R14=NC SDA = Data line for I2C programming
OS_A / SCL	R19=NC A_OS = CHA Swing Selection, Adjustment by R5 & R15 See the configuration table of Swing	R19 = ON, R5=NC, R15=NC SCL = Clock line for I2C programming

Output de-emphasis setting (pin strap control)		
DE_A/B	De-emphasis	Description
0	0 dB	R4 & R7 NC, R14 & R17 on
open	-3.5 dB	R4 & R7 NC, R14 & R17 NC
1	-6 dB	R4 & R7 on, R14 & R17 NC

Output Swing setting (pin strap control)		
OS_A/B	output swing	Description
0	900 mVppd	R5 & R8 NC, R15 & R18 on
open	1000 mVppd	R5 & R8 NC, R15 & R18 NC
1	1200 mVppd	R5 & R8 on, R15 & R18 NC

Title		
PI3EQX7841 reference design draw by PSC Anne		
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