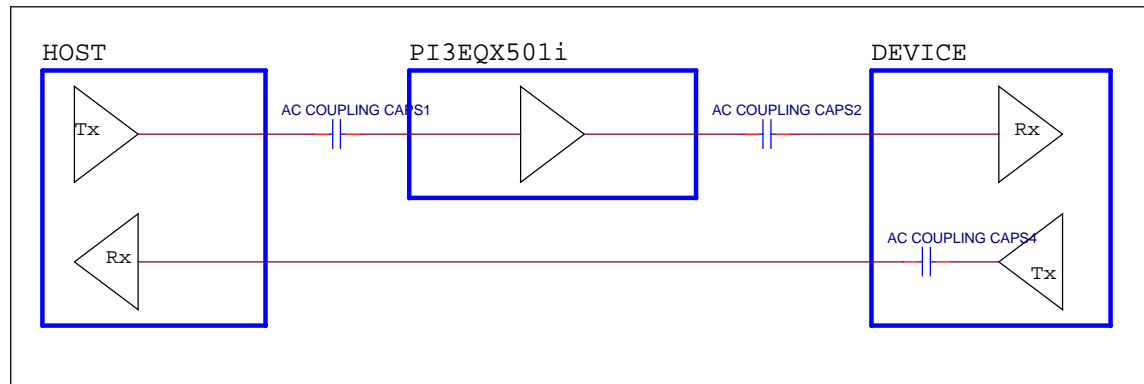


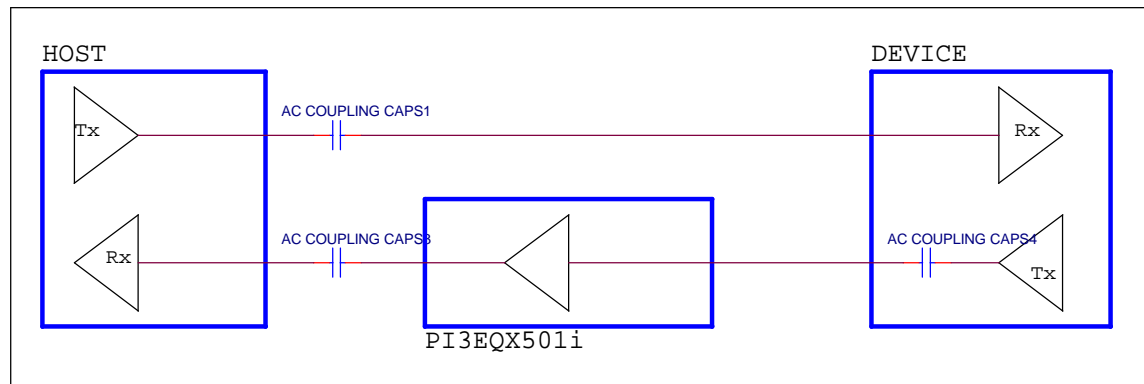
Revision History

| Date | History |
|-----------|----------------|
| 9/17/2012 | First Released |

Block Diagram_App in HOST TX side

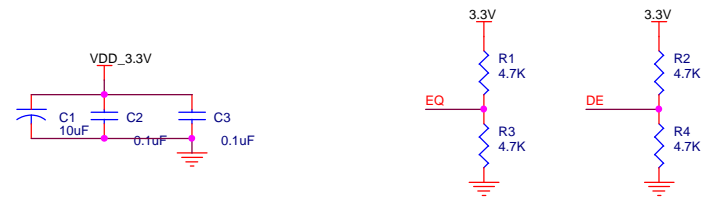


Block Diagram_App in HOST RX side

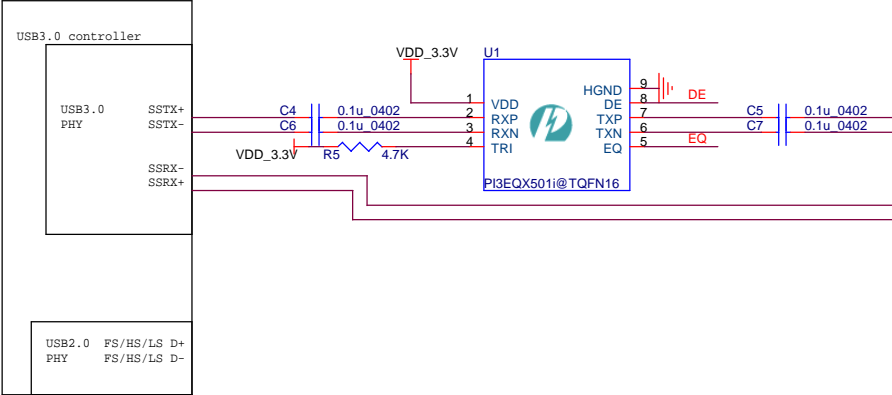


| | | |
|-------------|------------------------------|--------------|
| Title | | |
| <Title> | | |
| Size | Document Number | Rev |
| Custom<Doc> | | <RevCode> |
| Date: | Thursday, September 20, 2012 | Sheet 1 of 3 |

PI3EQX501I application
in HOST TX side



HOST



USB3.0 Connector
A type
Type A Connector use
Host side pin define

The block contains two images: a blue USB Type A connector and a black USB cable with a Type A connector on one end.

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 |

NOTE:
Type B Connector use DEVICE
side pin define

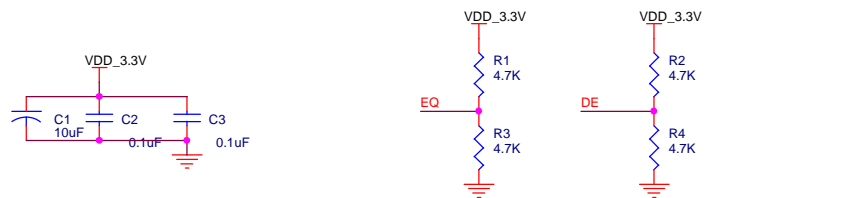
The block contains an image of a blue USB Type B connector.

NOTE:
After PCB layout, de-emphasis, and Equalizer should be fine tune

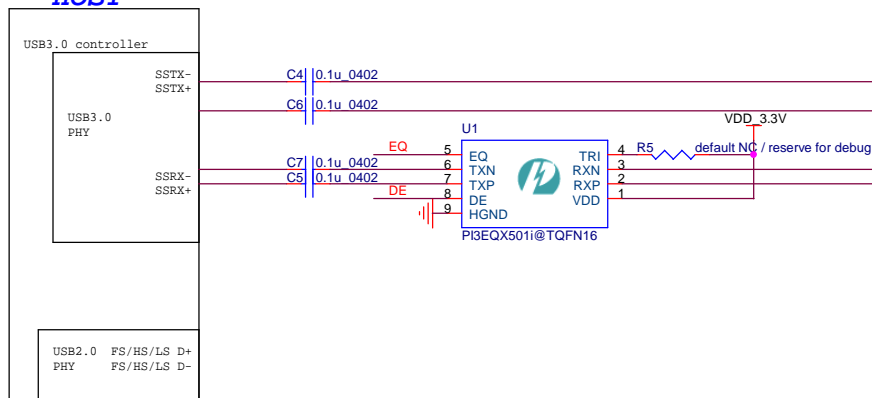
| Equalizer setting | | |
|-------------------|---------|--------------|
| EQ | @2.5GHz | Description |
| 0 | 3 dB | R1 NC, R3 on |
| open | 6 dB | R1 NC, R3 NC |
| 1 | 9 dB | R1 on, R3 NC |

| Output de-emphasis setting | | |
|----------------------------|-------------|--------------|
| DE | De-emphasis | Description |
| 0 | 0 dB | R2 NC, R4 on |
| open | -3.5 dB | R2 NC, R4 NC |
| 1 | -6 dB | R2 on, R4 NC |

**PI3EQX501I application
in HOST RX side**



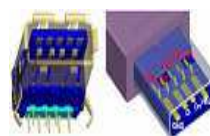
HOST



USB3.0 Connector

A type

Type A Connector use **Host** 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 |

NOTE :

Type B Connector use DEVICE
side pin define



NOTE :

After PCB layout, de-emphasis, and Equalizer should be fine tune

| Equalizer setting | | |
|-------------------|---------|--------------|
| EQ | @2.5GHz | Description |
| 0 | 3 dB | R1 NC, R3 on |
| open | 6 dB | R1 NC, R3 NC |
| 1 | 9 dB | R1 on, R3 NC |

| Output de-emphasis setting | | |
|----------------------------|-------------|--------------|
| DE | De-emphasis | Description |
| 0 | 0 dB | R2 NC, R4 on |
| open | -3.5 dB | R2 NC, R4 NC |
| 1 | -6 dB | R2 on, R4 NC |