## Page 2

OEM board connector, expansion connectors and alarm output.

## Page 3

Ethernet interface, JTAG and ETM interfaces, reset LED&key and SD/MMC interface connector.

## Page 4

Analog input, speaker output, irq-key, joystick key, accelerometer and i2c-port expander: LEDs and keys.

## Page 5

Power supply, USB-to-serial bridge, ISP functionality, RS232 interface, IrDA transceiver and dual CAN interfaces.

## Page 6

USB OTG and USB Host interfaces.

## Page 7

QVGA interface, LED backlight power and touch screen controller.

## Page 8

LCD expansion interface.

UL = UnLoaded = normally not mounted component.

Default jumper settings are indicated in the schematic. However, always check jumper positions on actual boards since there is no guarantee that all jumpers are in default place.

## Rev 1.3

Changed U3 (accelerometer).

## Rev 1.2

Added U23, R151, C82 and J39 (page 2).
Added R145-R149 10K (page 3).
Removed VCC connection on J5, pin2 (page 3).
Changed U14 to TFBS4652 (from HSDL-3209) (page 5).
Changed R86 to 36R (from 27R) (page 5).
Added R150 (UL-1K) (page 6).
Change R100 to 1K (from 10K) (page 6).

## Rev 1.1

Changed value on R4, R16, R22, R43-R49, R52, R66, R105.
Added C79-C81, R140-R144.
Changed U18/U19 to 74LVC16245 (from 74LVCH16245).

## Rev 1.0

Original revision

Embedded Artists

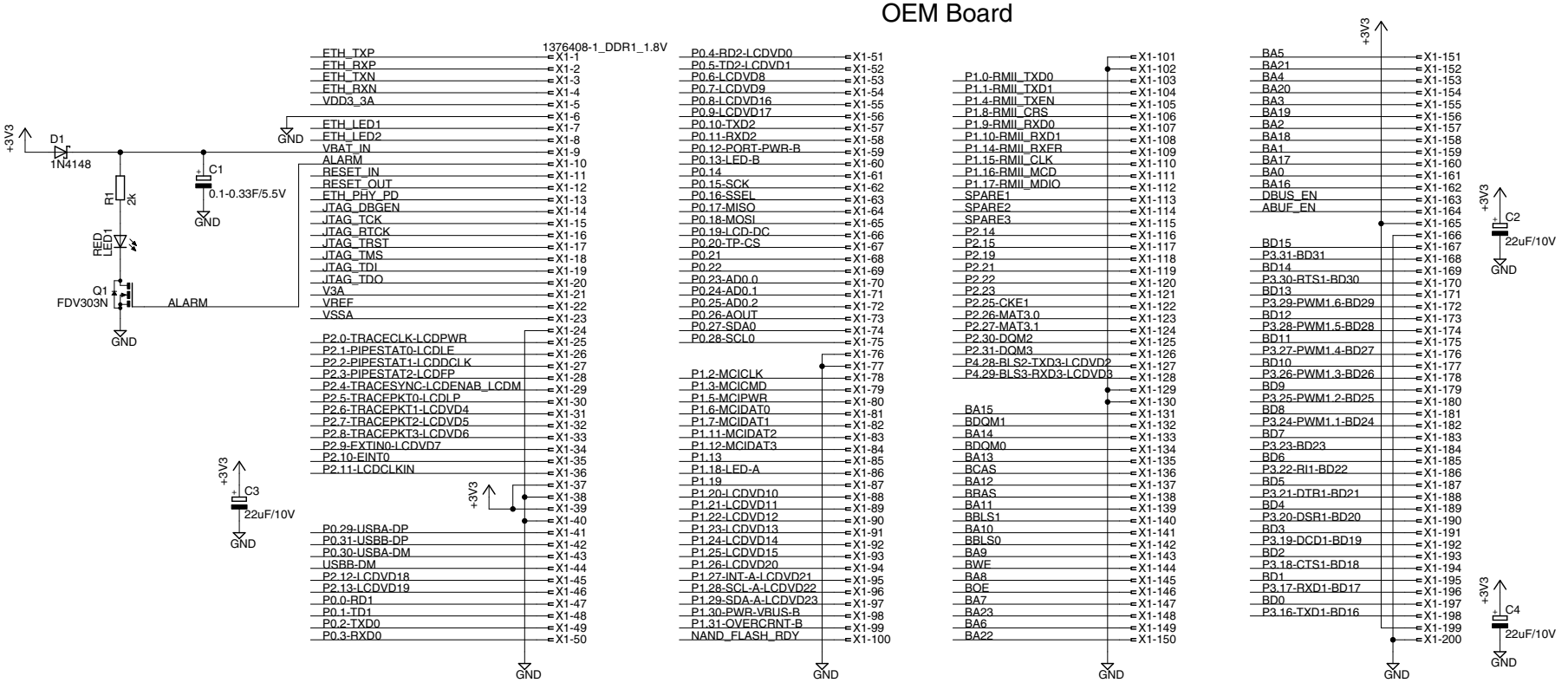


TITLE: QVGA Base Board v1.3

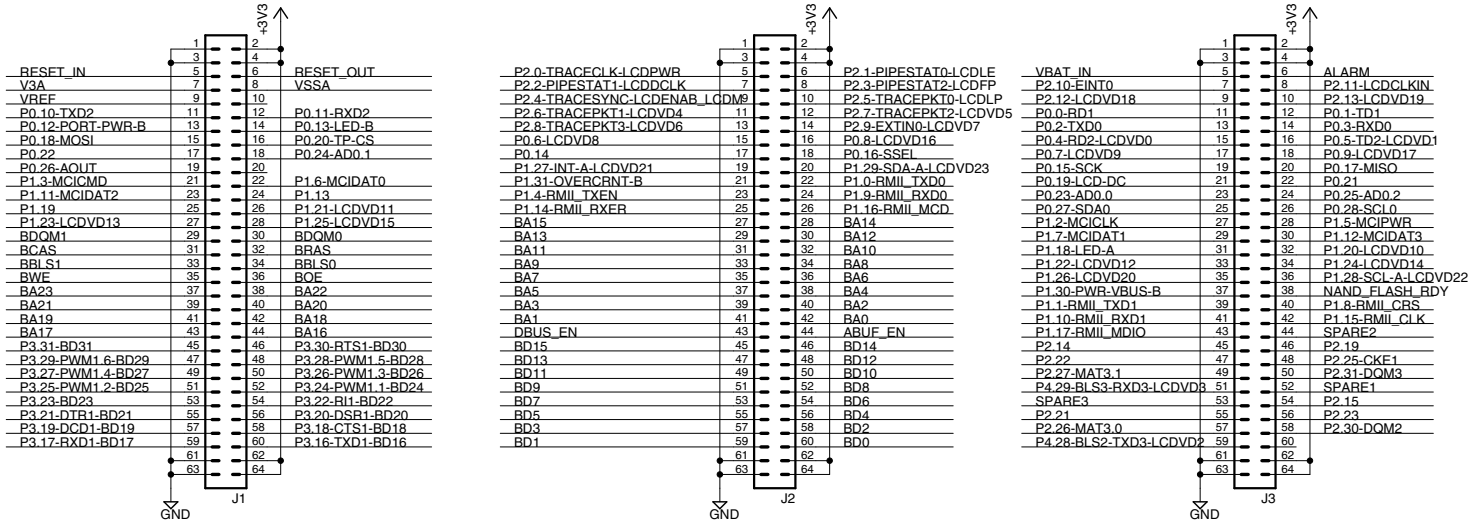
Document Number: | REV:

Date: 2011-10-29 17:21:03 | Sheet: 1/8

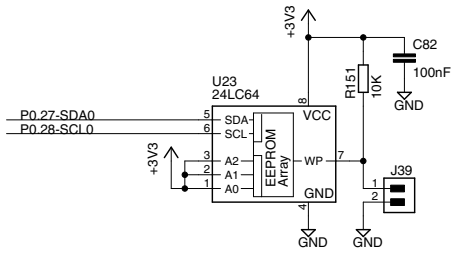
# OEM Board




# Expansion Connectors




# 64kbit Configuration EEPROM




Insert to override WP



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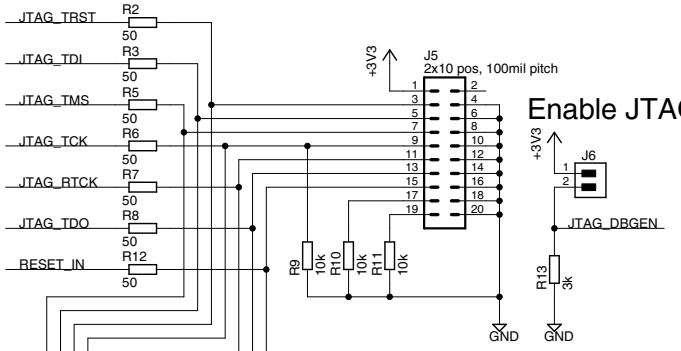
|---|---|
| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 2/8 |

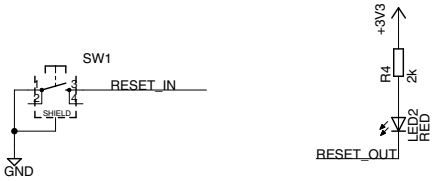
## JTAG Interface



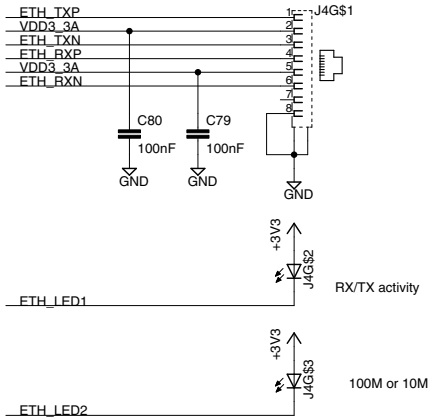

## Enable JTAG



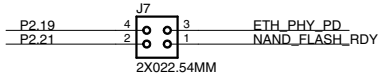

## Reset Push-button & LED



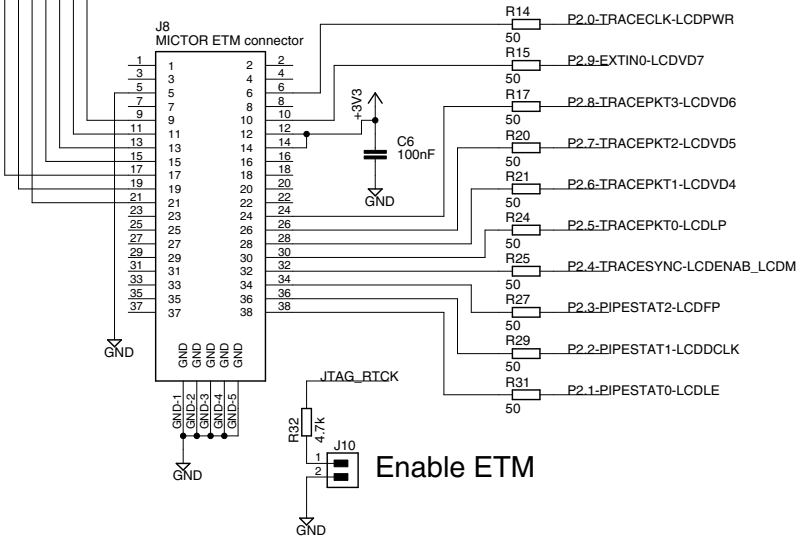

## RJ45 Ethernet Connector




## Optional Connections



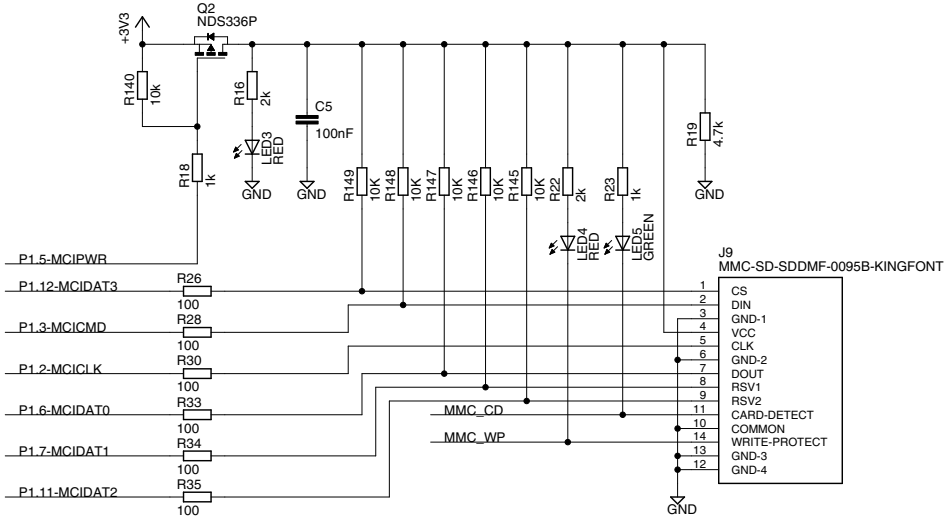

## ETM Interface




## Enable ETM




## MMC/SD Memory Card I/F



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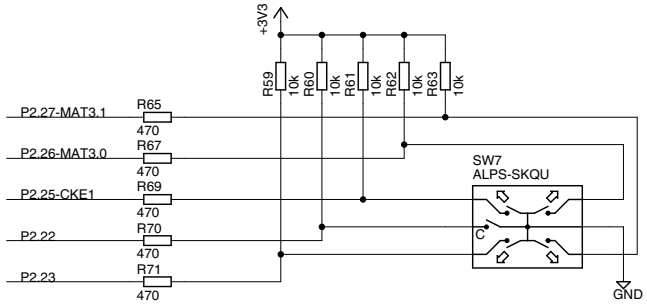
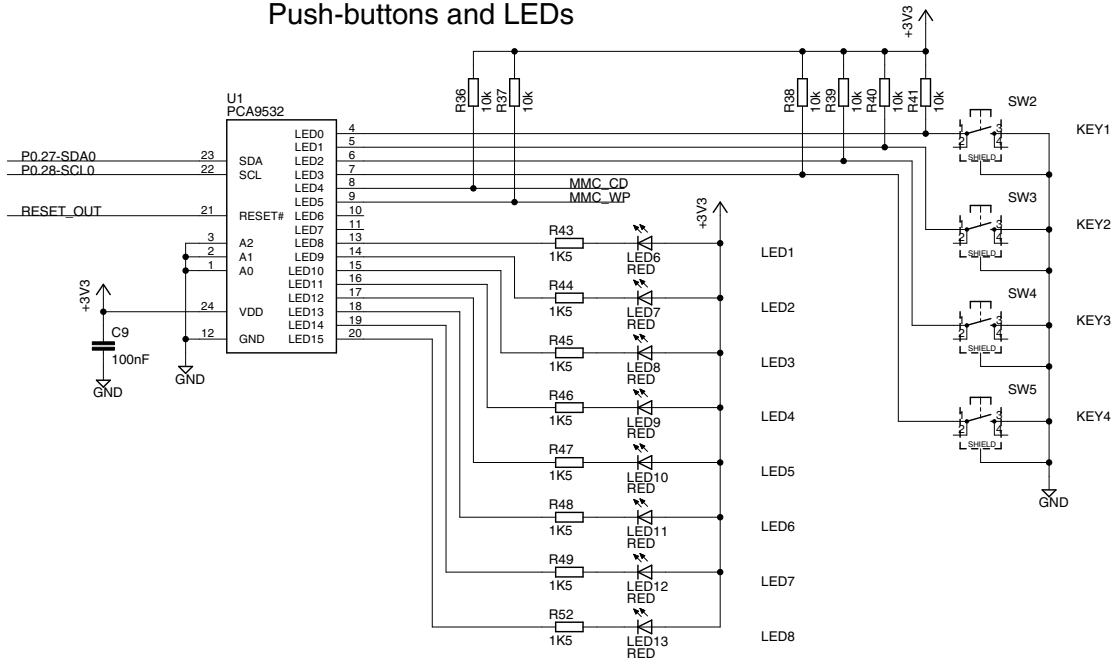
| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 3/8 |

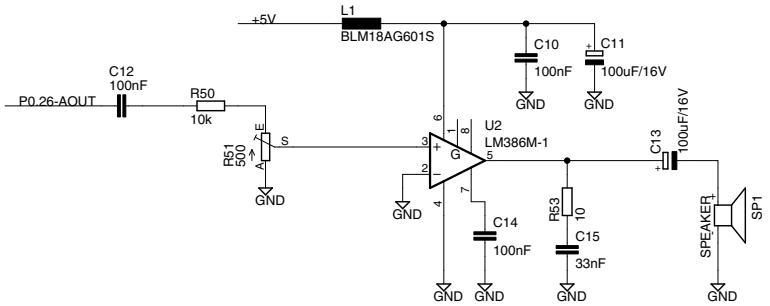
## 5-key Joystick Switch



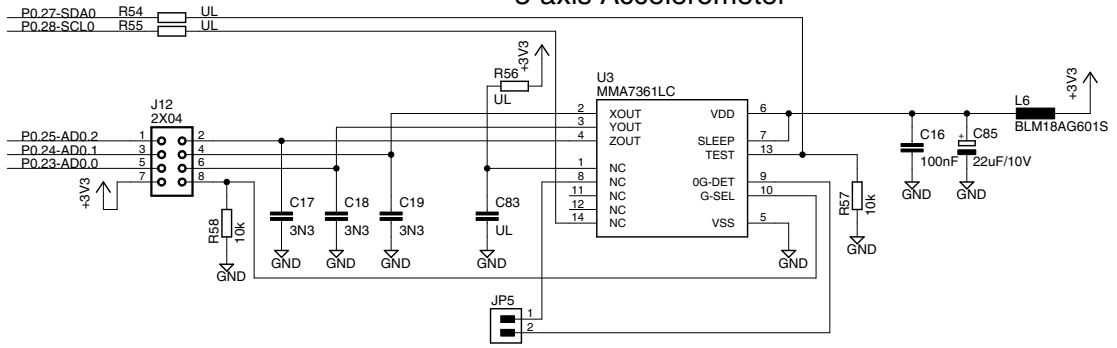

## Push-buttons and LEDs




## Speaker Amplifier (DAC output)



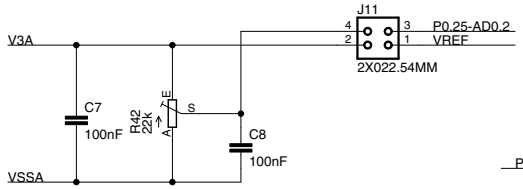

## 3-axis Accelerometer



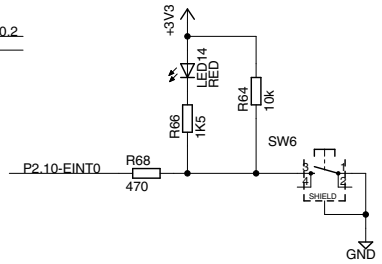

MMA7361 mounted (analog outputs):
Mount as in schematic

MMA7455 mounted (I2C interface):
C17 and C19 are 0R (to ground)
R54/R55/R56 are 0R
C83 mounted
No jumpers in J12
I2C address (0x1D): 0.0.1.1.1.0.1.RW

## Analog Input




## Interrupt (P2.10) Key



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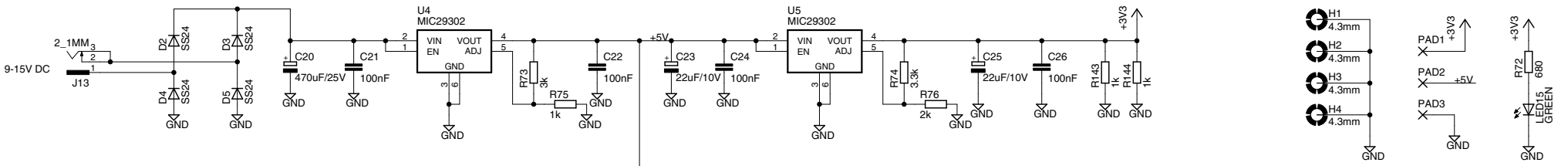
| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 4/8 |

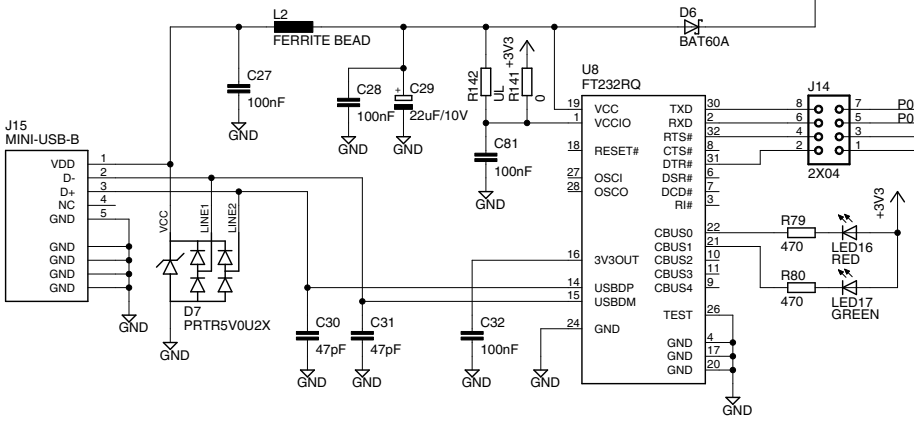
## Power Supply



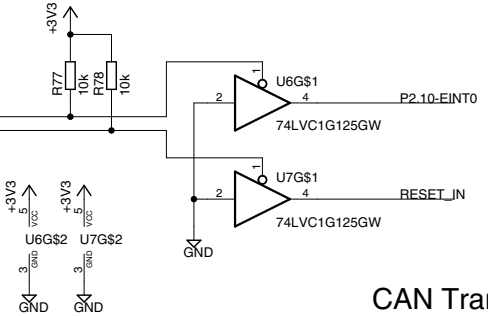




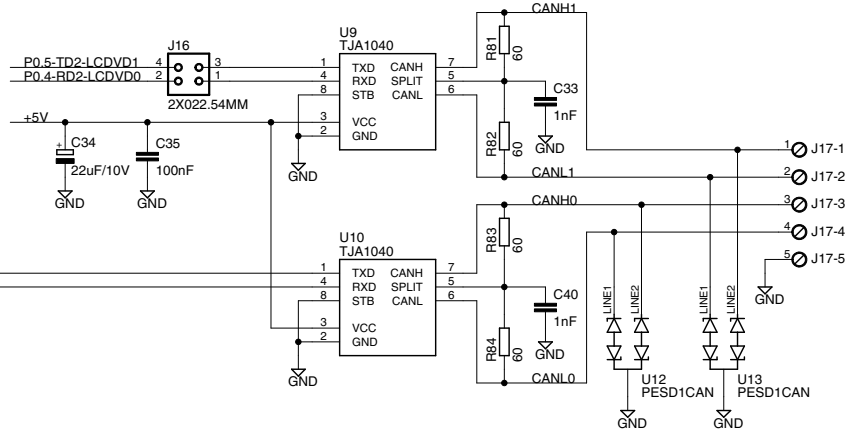
## UART #0 over USB Serial Bridge



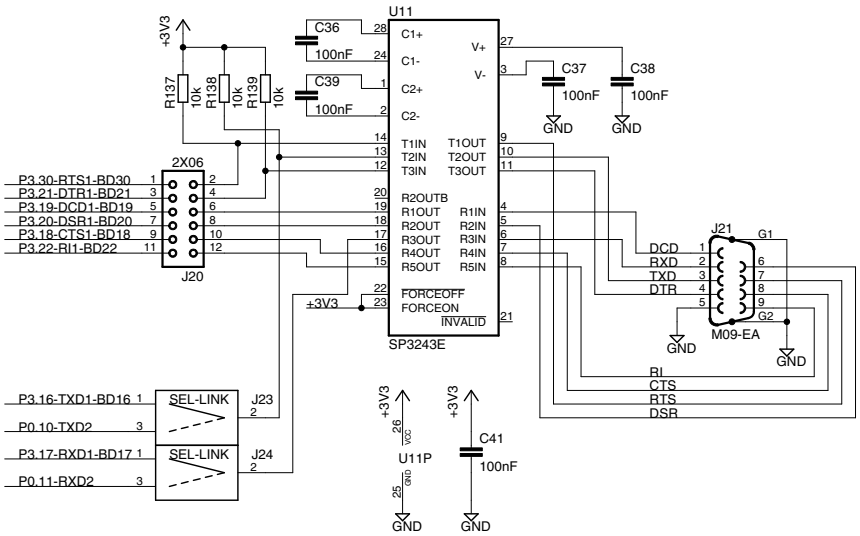

## ISP Functionality

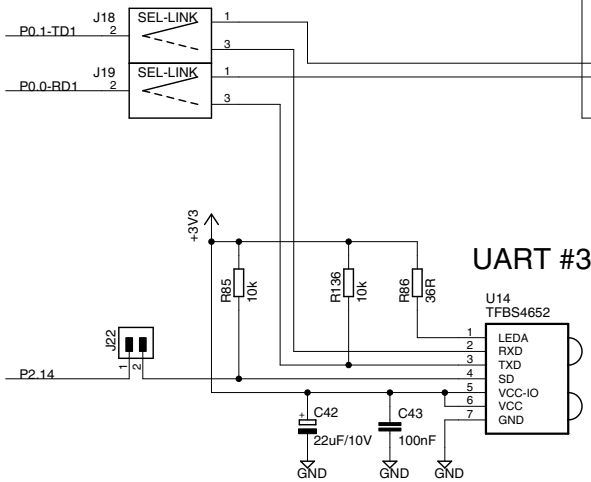



## CAN Transceivers




## UART RS232 Full Modem




## UART #3 IrDA Tranceiver



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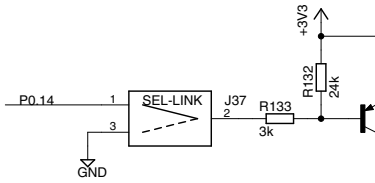
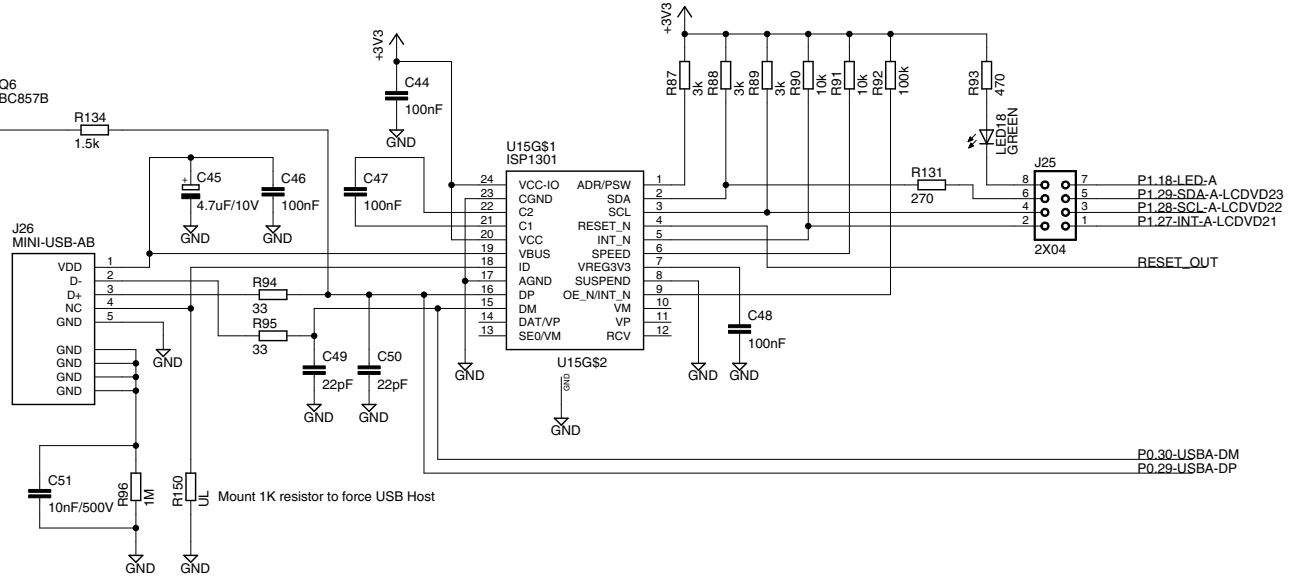
| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 5/8 |

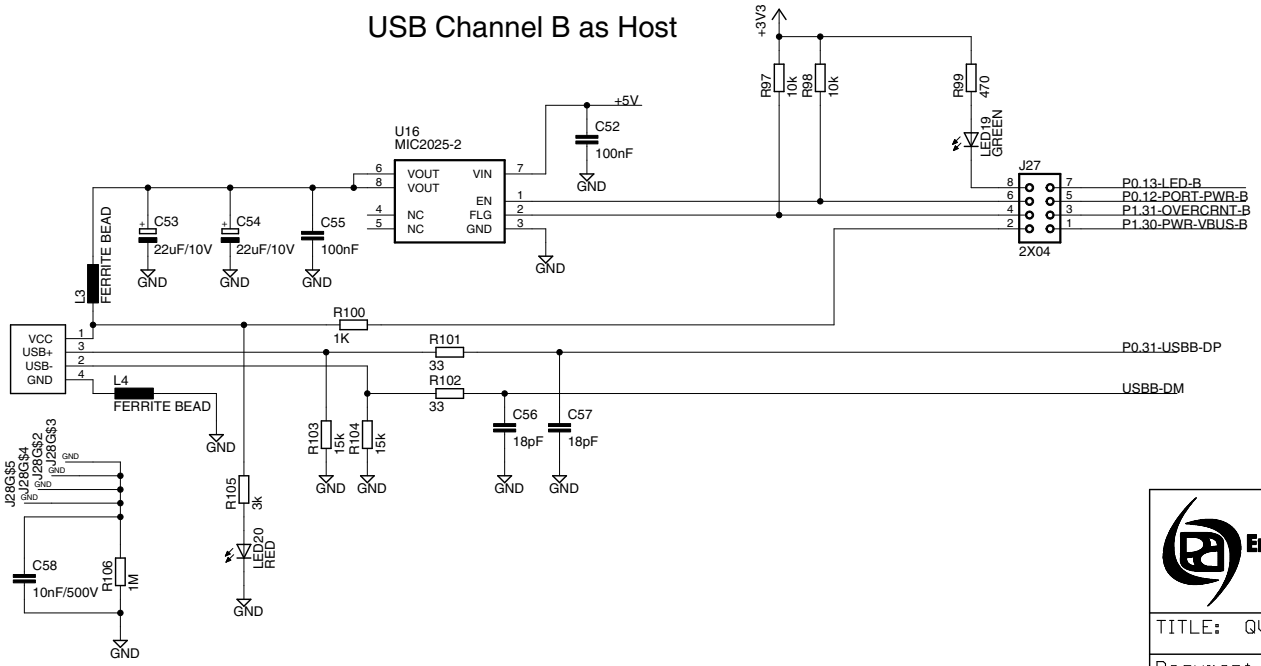
## USB-connect circuit




## USB Channel A (OTG or Device)




## USB Channel B as Host







(C) Embedded Artists AB

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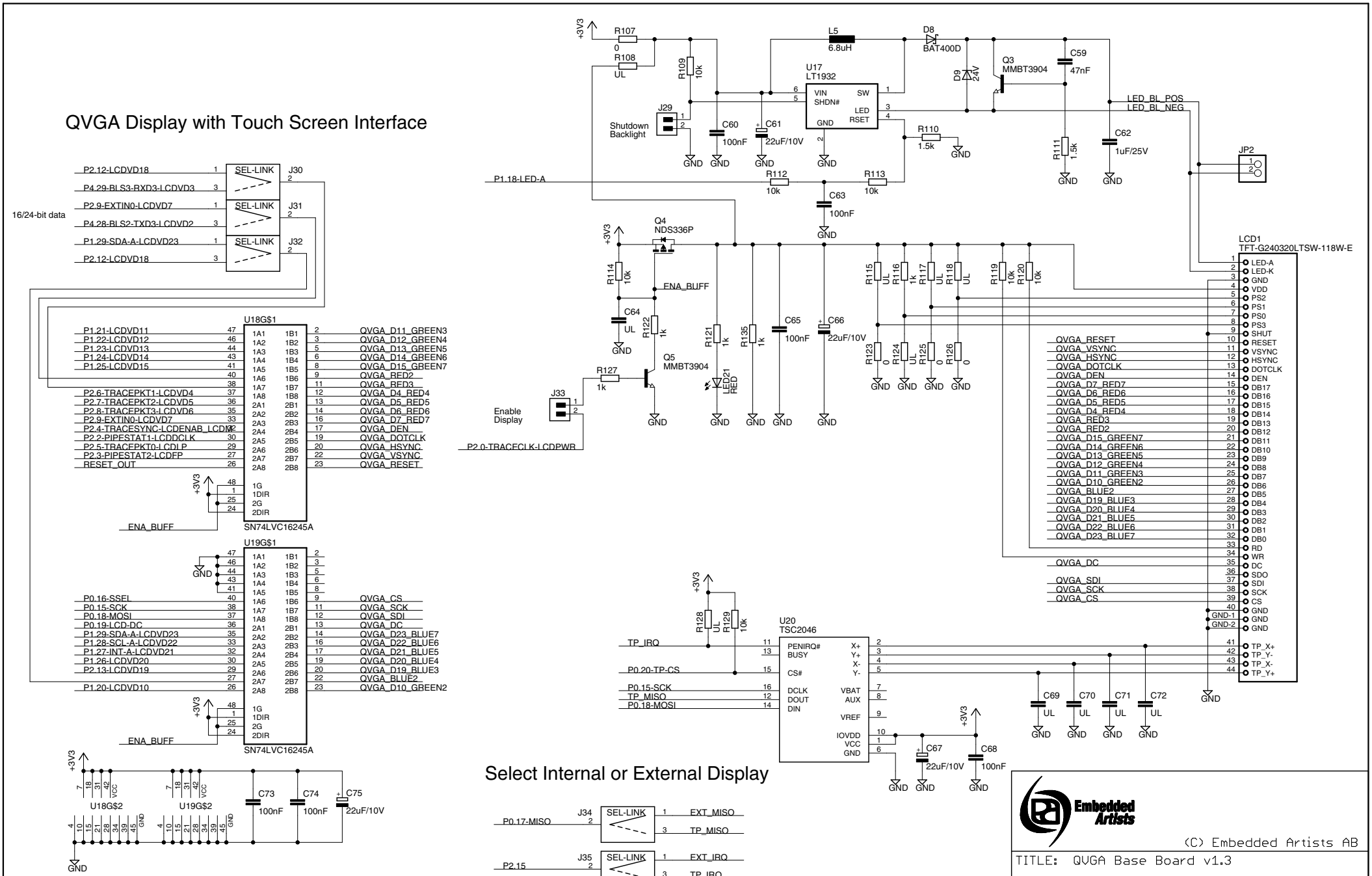
| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 6/8 |

# QVGA Display with Touch Screen Interface




## Select Internal or External Display



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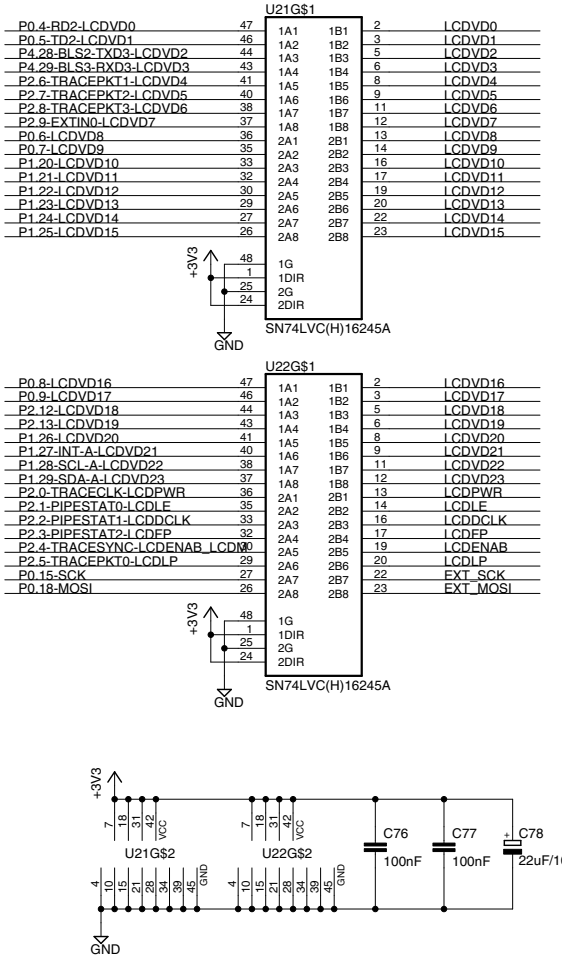
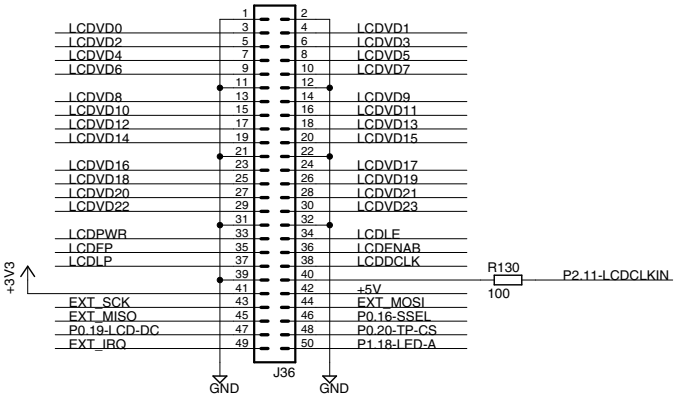
| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 7/8 |




## LCD Expansion Connector



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| TITLE: QVGA Base Board v1.3 | |
| Document Number: | REV: |
| Date: 2011-10-29 17:21:03 | Sheet: 8/8 |