

Page 2

LCD Expansion Connector

Page 3

Sequence Control, Config Memory and Touch Interface

Page 4

Backlight voltage generation

Page 5

3.5 inch display

Page 6

4.3 inch displays

Page 7

7 inch displays

LCD Expansion Connector

Configuration
E2PROM

Sequence Control and
Backlight Dimming

33.333 MHz oscillator

Voltage Switches for
+3.3V and +5V

Touch screen
interface

3.5 inch 320x240 pixel LCD

4.3 inch 480x272 pixel LCD

7 inch 800x480 pixel LCD

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 PB1

Added 7 inch LCD (UMSH-8173MD-8T).
R44 changed to 0R. Added D5, R82 and SJ2 - SJ6.
Added second backlight voltage generator (U8).
Changed U1 to 33.333MHz.

Rev A

Added reset control for 3.5 inch LCD.



© Embedded Artists AB

TITLE: LCD Board rev PB1

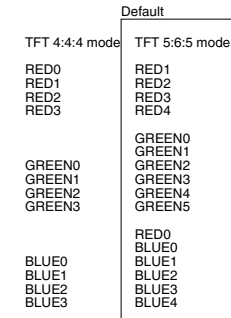
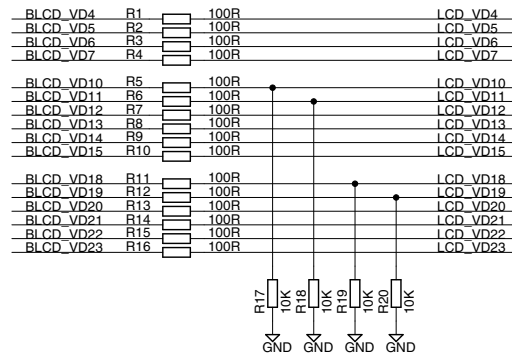
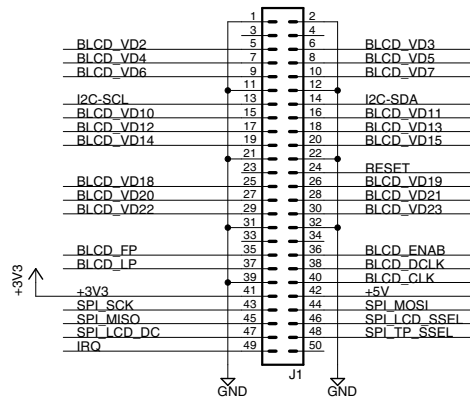
Document Number:

Date: 2011-08-07 12:06:01

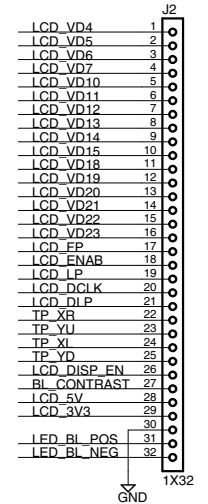
Sheet: 1/7

LCD Expansion Connector

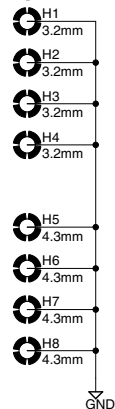
LCD Expansion Connector



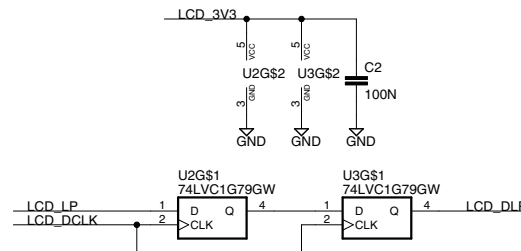
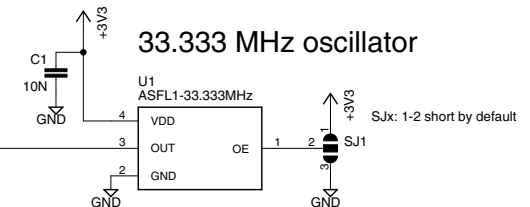
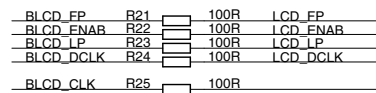
Expansion Connector



Mounting holes for LCD



Control signals



(C) Embedded Artists AB

TITLE: LCD Board rev PB1

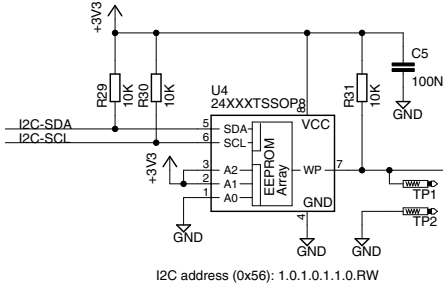
Document Number:

Date: 2011-08-07 12:06:01

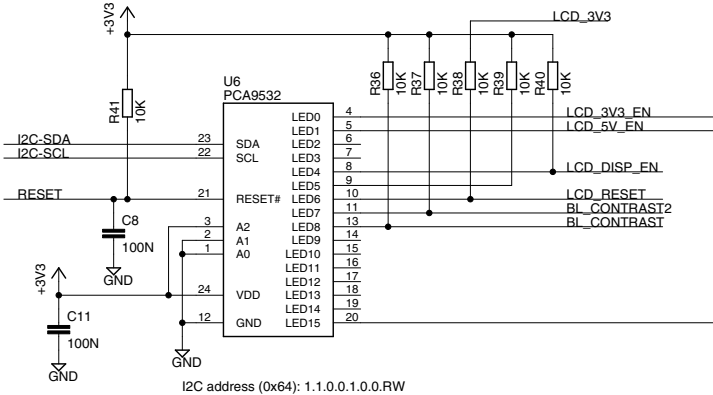
Sheet: 2/7

Sequence Control, Config Memory and Touch Interface

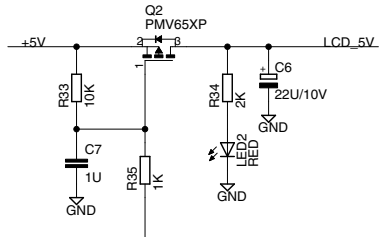
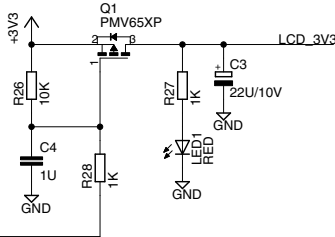
64kbit Configuration E2PROM
(see User's Manual for details)



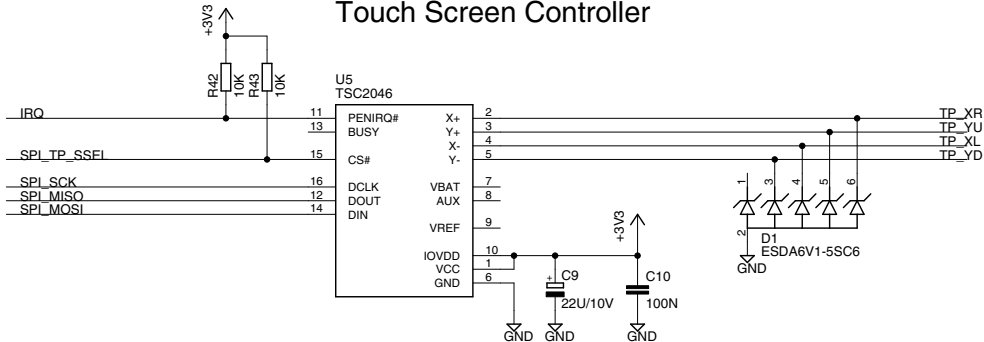
Sequence Control and Backlight Dimming



Power control



Touch Screen Controller



(C) Embedded Artists AB

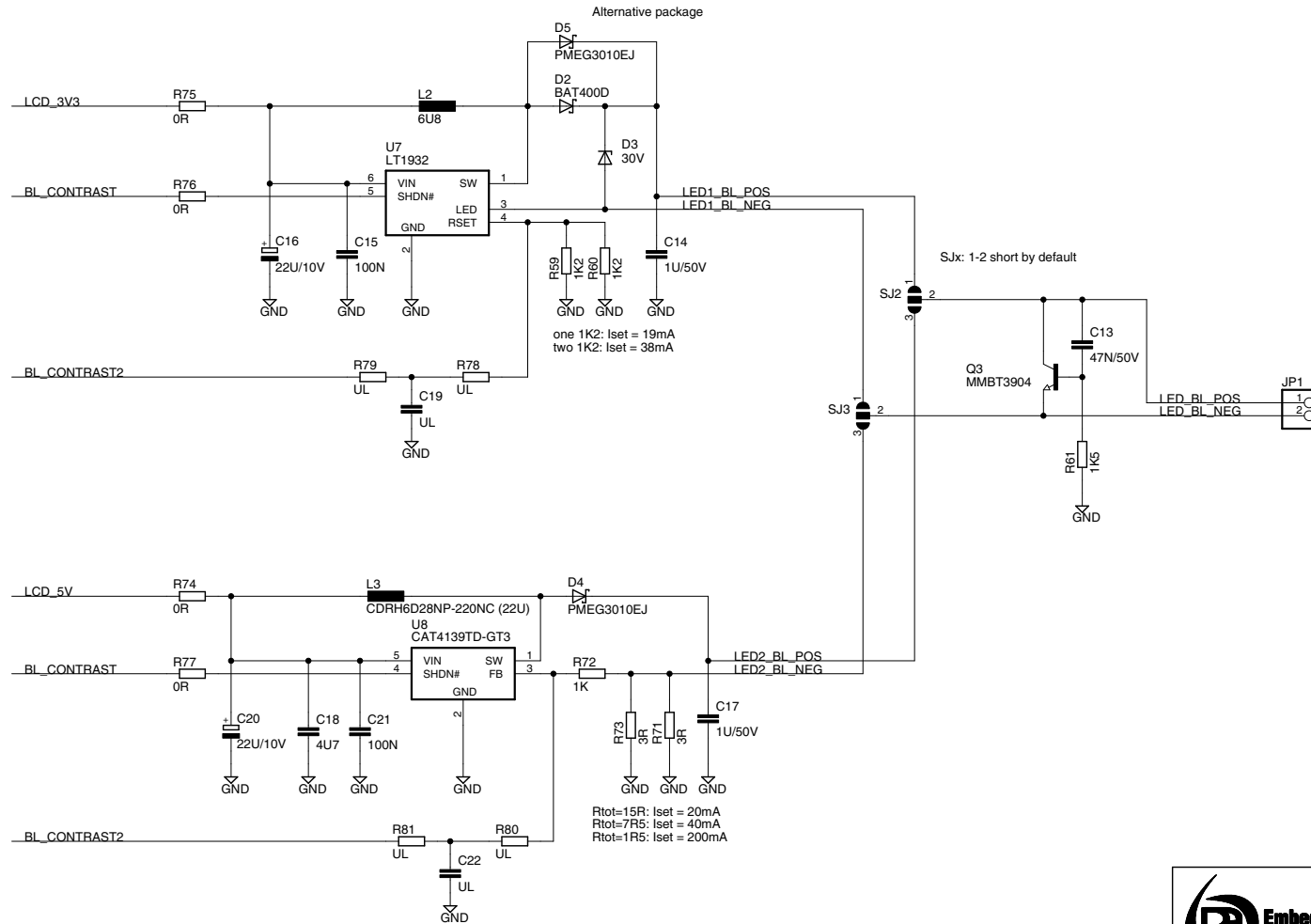
TITLE: LCD Board rev PB1

Document Number:

Date: 2011-08-07 12:06:01

Sheet: 3/7

Backlight voltage generation



(C) Embedded Artists AB

TITLE: LCD Board rev PB1

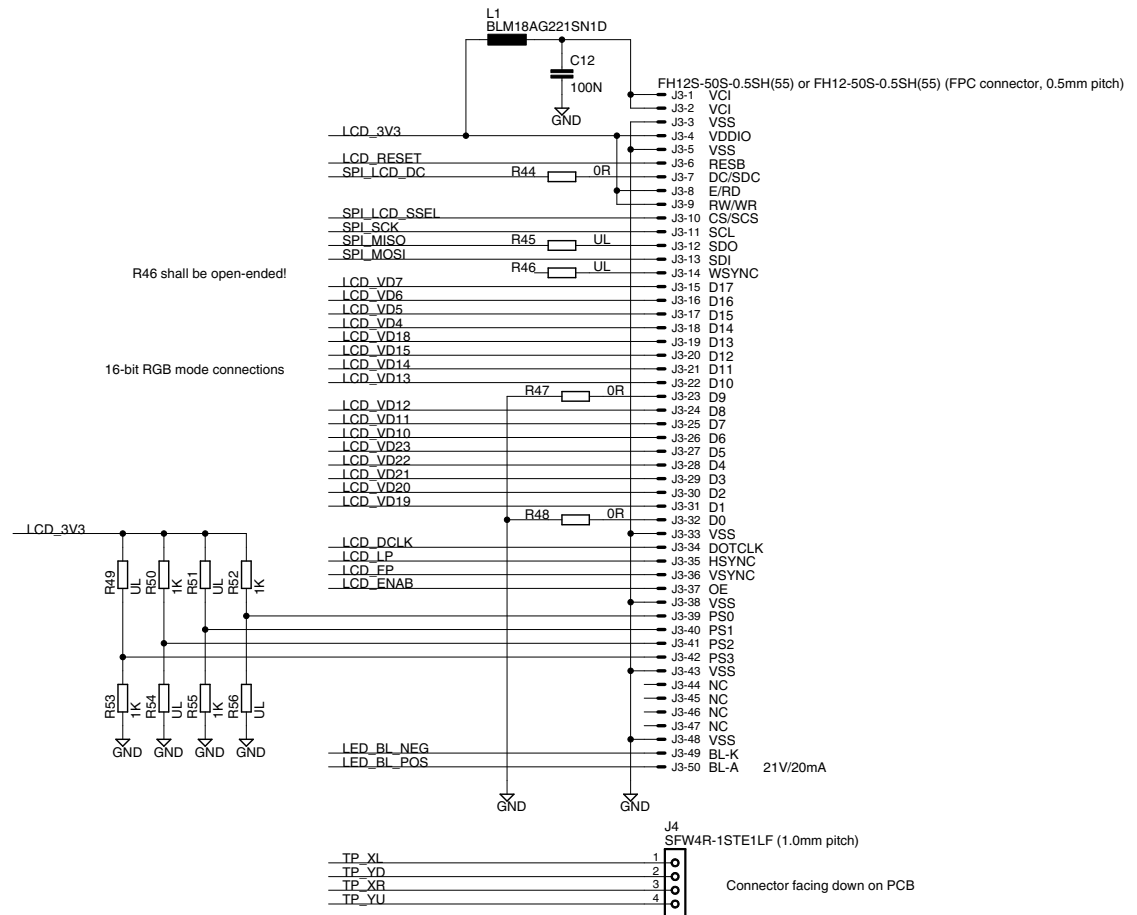
Document Number:

Date: 2011-08-07 12:06:01

Sheet: 4/7

3.5"320x240 pixel LCD

Model: UMSH-8252MD-1T from U.R.T.



(C) Embedded Artists AB

TITLE: LCD Board rev PB1

Document Number:

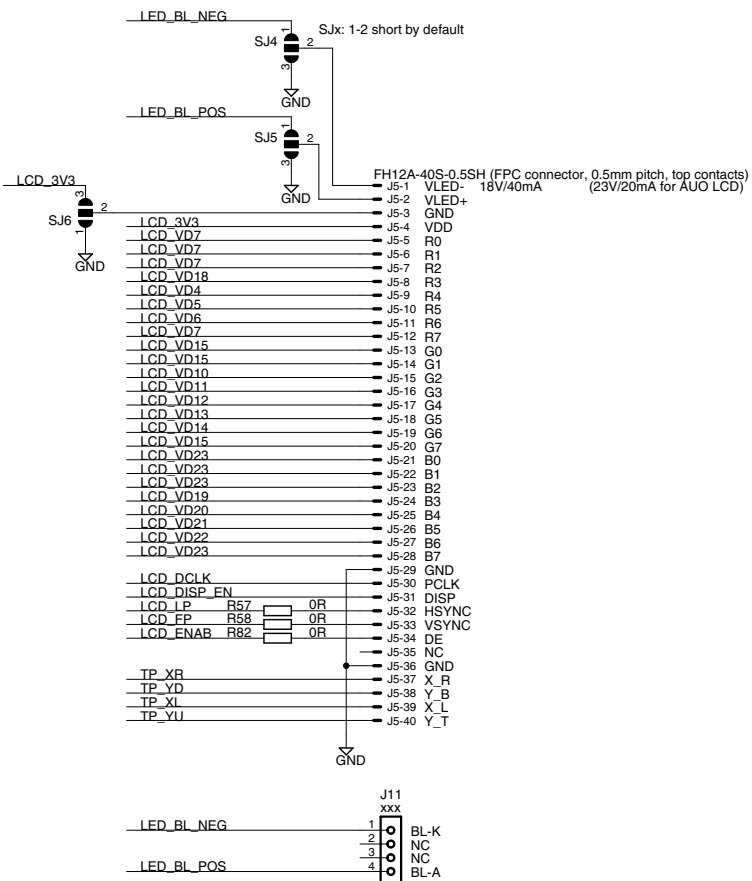
Date: 2011-08-07 12:06:01

Sheet: 5/7

4.3"480x272 pixel LCD

Model: HSD043I9W1-A00-0299 from HannStar
Also compatible with model: A043EW02 V2 from

Also compatible with model: A043FW02 V3 from AUO



(C) Embedded Artists AB

TITLE: LCD Board rev PB1

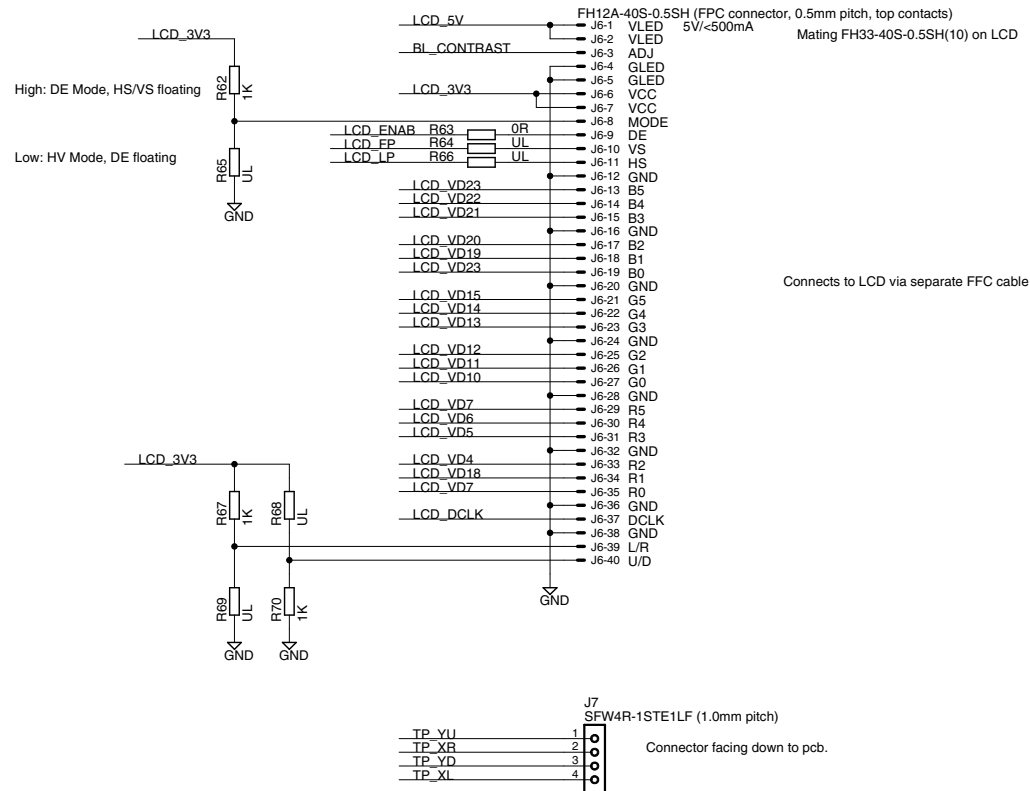
Document Number:

Date: 2011-08-07 12:06:01

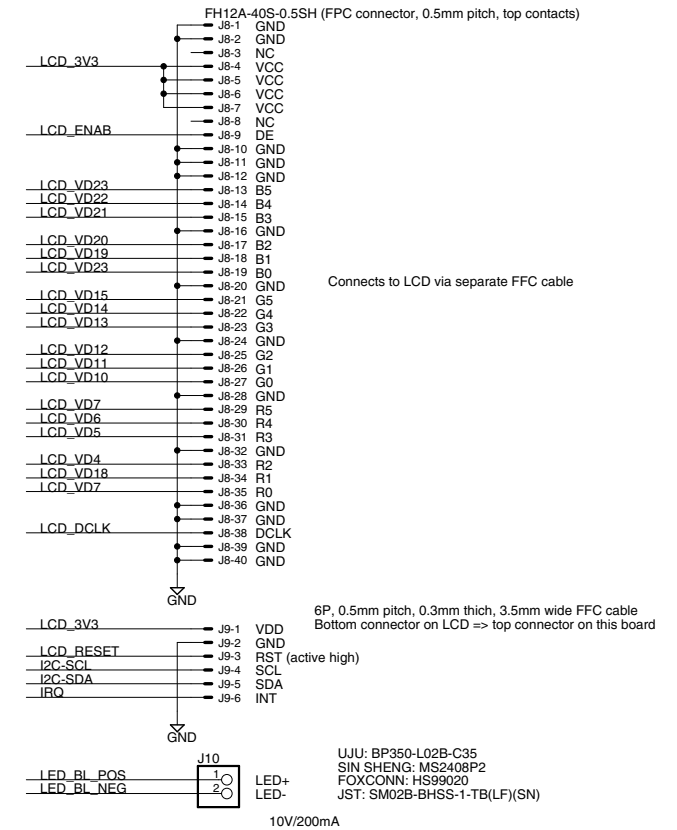
Sheet: 6/7

7" 800x480 pixel LCD

Model: AT070TN84 from INNOLUX



Model: UMSH-8173MD-8T from U.R.T.



(C) Embedded Artists AB

TITLE: LCD Board rev PB1

Document Number:

Date: 2011-08-07 12:06:01

Sheet: 7/7