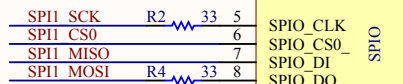


Change:
 1. LM2842 (\$2.90) to MCP16301 (\$1.21)
 2. Hall sensor (3.95) for MCP6001 OpAmp (\$0.29)
 and 0.1ohm res (\$0.50) and (4) resistors
 3. 4.7k 0603 (\$0.68) for 4.7k 0603 (\$0.10)

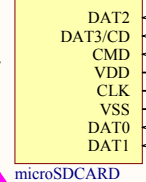
3.3V @ ??mA
 1.8V @ 160mA (typ)
MicroController

SPI 1 Port Master

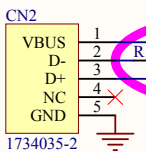


Micro SD

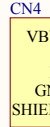
27



Mini-B USB
USB 2.0



USB Host 1.0 Lite
USB-A



U2A

SPIO_CLK
 SPIO_CS0
 SPIO_DI
 SPIO_DO

MODE_8_GPC[4]
 MODE_9_GPC[5]
 MODE_10_GPC[6]

SDDAT[2]
 SDDAT[3]
 SD_CMD
 SDCLK
 SD 0
 SD 1

UD_CDET
 UD_DM
 UD_DP
 UD_REXT

H_DM/GPA[4]
 H_DP/GPA[3]

N32905U1DN

NCS0
 NCS1
 NALE
 NCLE
 NRE
 NWR
 NBUSY0
 NBUSY1

ND/MODE[0]
 ND/MODE[1]
 ND/MODE[2]
 ND/MODE[3]
 ND/MODE[4]
 ND/MODE[5]
 ND/MODE[6]
 ND/MODE[7]

RTC_XIN
 RTC_XOUT

RTC_VDD
 RTC_RAWAKE
 RTC_RPW

UART

RST_

ADAC_HPOUT_L
 ADAC_HPOUT_R

JTAG

CS0
 ALE
 CLE
 NRE
 WR
 BUSY0

ND0
 ND1
 ND2
 ND3
 ND4
 ND5
 ND6
 ND7

XIN
 XOUT

RTC_VDD
 RTC_RAWAKE
 RTC_RPW

UART

RST_

ADAC_HPOUT_L
 ADAC_HPOUT_R

JTAG

Programming Header

Title **Sway Host Board**

By: ROC

Number:03122104

Revision:B

Date: 10/15/2014

Time: 6:55:53 PM

Sheet1 of 4

File: C:\Circuits\unacuna\sway_elec\boards\sway_rev_b\sway_rev_b - Sheet 1.SchDoc

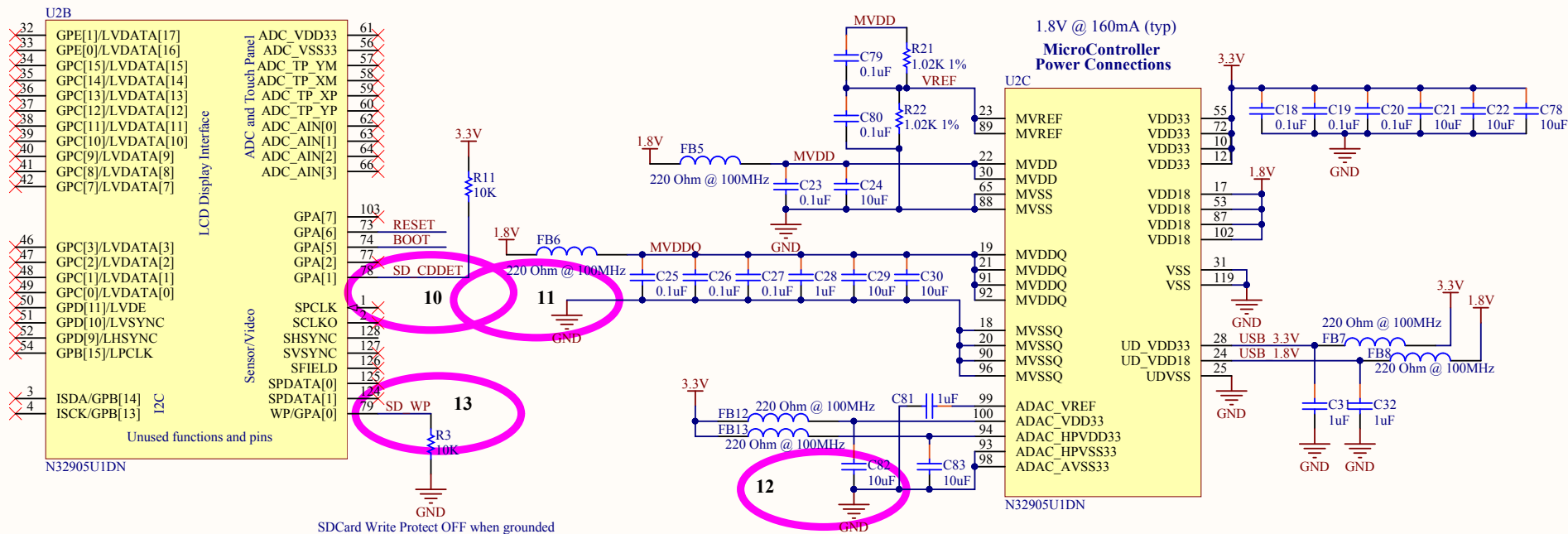
OLogic, Inc.
 1394 Borregas Ave.
 Sunnyvale, CA
 94089 USA
 (650) 996-1490

OLogic

| | | | | |
|---------------------------|------|-------|-------|------------------|
| ND2 | NDO | on | on | 12MHz recovery |
| | | on | off | 12MHz normal |
| | | off | on | 27MHz recovery |
| | | off | off | 27MHz normal <== |
| ND7 short = 4 NAND cycles | | | | |
| open = 5 NAND cycles <== | | | | |
| LVD5 | LVD4 | short | short | 2kB <== |
| | | short | open | 4kB |
| | | open | short | 8kB |
| | | open | open | none |
| ND5 | ND4 | short | short | type SDRAM <== |
| | | short | open | LPDDR |
| | | open | short | DDR |
| | | open | open | DDR II |

A

A

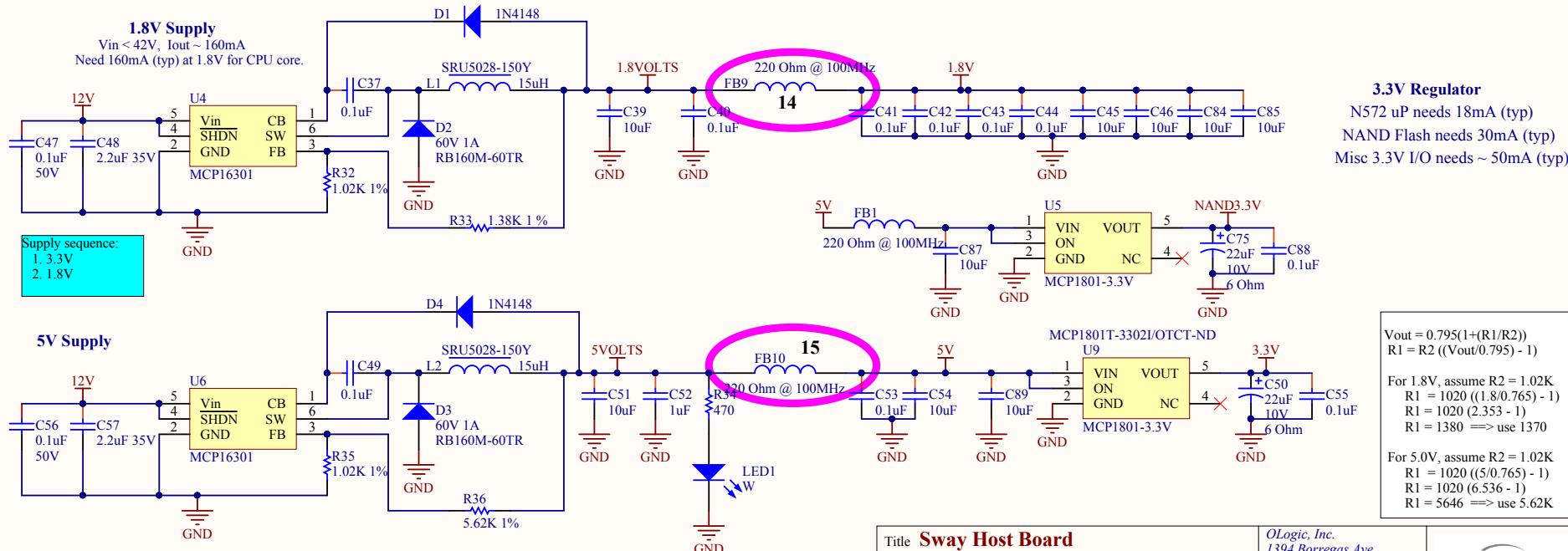


B

B

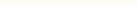
C

C



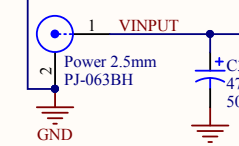
D

D

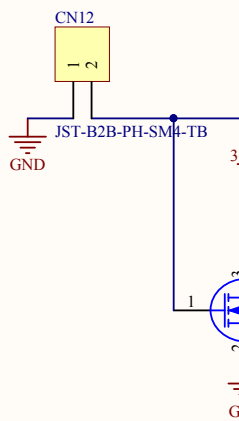
| | | | | | | |
|---|--|------------------|--|--|--|---|
| Title Sway Host Board | | | | OLogic, Inc. 1394 Borregas Ave. Sunnyvale, CA 94089 USA (650) 996-1490 | |  |
| By: ROC | | Number:03122104 | | Revision:B | | |
| Date: 10/15/2014 | | Time: 6:55:53 PM | | Sheet2 of 4 | | |
| File: C:\Circuits\unacuna\sway_elec\boards\sway_rev_b\sway_rev_b - Sheet 2.SchDoc | | | | | | |

This circuitry is to handle power ON/OFF.
A single push will turn it on.
A single push will turn it off (if the uP is running)
A long push (>5sec) will force the power off
independent of the uP state.

12V Power In



Power ON/OFF Switch



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