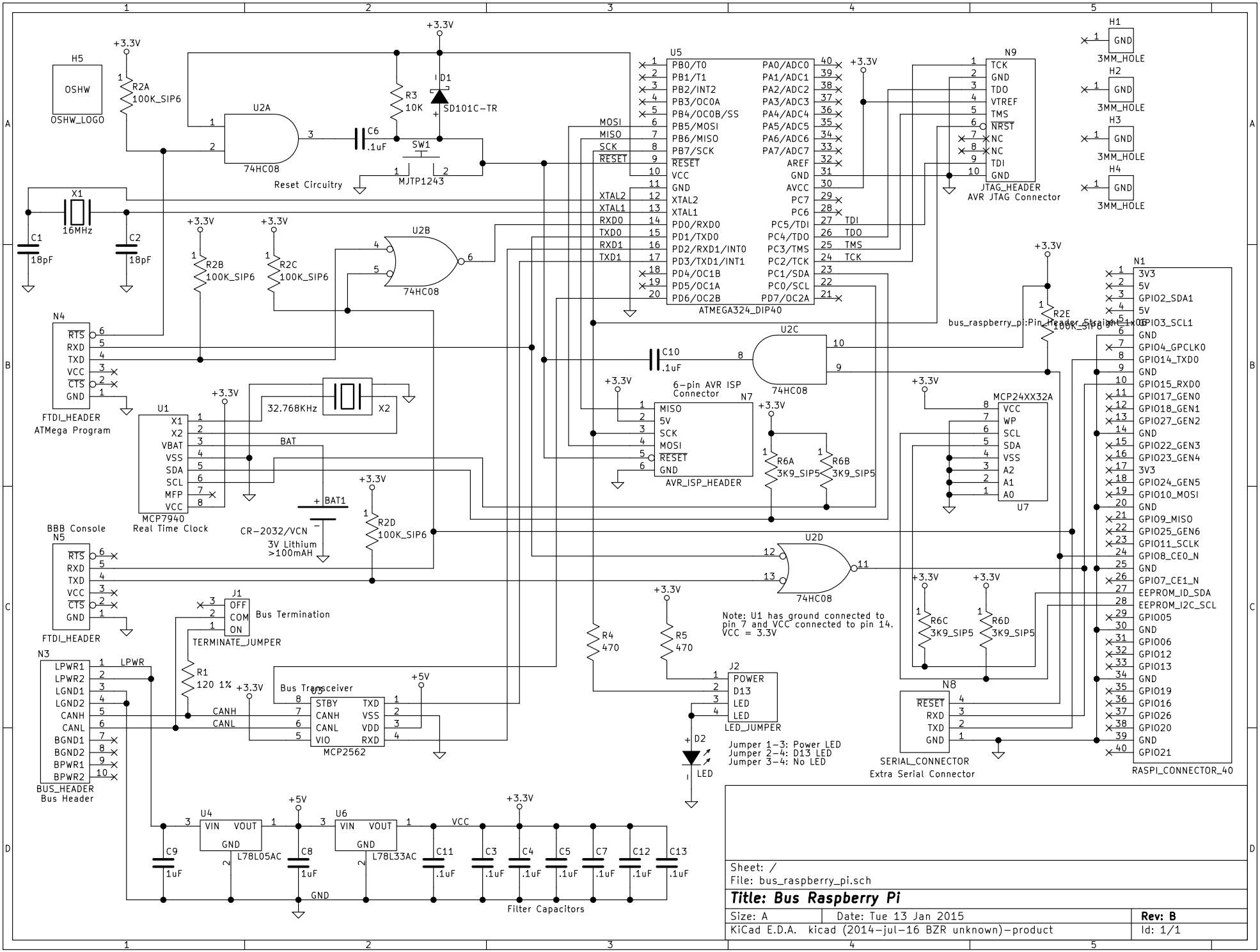
H5
OSHW
OSHW_LOGO
+3.3V
R2A
100K_SIP6
U2A
74HC08
Reset Circuitry
R3
10K
D1
SD101C-TR
C6
.1uF
SW1
MJTP1243
X1
16MHz
C1
18pF
C2
18pF
R2B
100K_SIP6
R2C
100K_SIP6
U2B
74HC08
U5
PB0/T0
PB1/T1
PB2/INT2
PB3/OC0A
PB4/OC0B/SS
PB5/MOSI
PB6/MISO
PB7/SCK
RESET
VCC
GND
XTAL2
XTAL1
PD0/RXD0
PD1/TXD0
PD2/RXD1/INT0
PD3/TXD1/INT1
PD4/OC1B
PD5/OC1A
PD6/OC2B
PA0/ADC0
PA1/ADC1
PA2/ADC2
PA3/ADC3
PA4/ADC4
PA5/ADC5
PA6/ADC6
PA7/ADC7
AREF
GND
AVCC
PC7
PC6
PC5/TDI
PC4/TDO
PC3/TMS
PC2/TCK
PC1/SDA
PC0/SCL
PD7/OC2A
ATMEGA324_DIP40
MOSI
MISO
SCK
RESET
XTAL2
XTAL1
RXD0
TXD0
RXD1
TXD1
TDI
TDO
TMS
TCK
N9
TCK
GND
TDO
VTREF
TMS
NRST
NC
NC
TDI
GND
JTAG_HEADER
AVR JTAG Connector
H1
H2
H3
H4
GND
3MM_HOLE
N4
RTS
RXD
TXD
VCC
CTS
GND
FTDI_HEADER
ATMega Program
U1
X1
X2
VBAT
VSS
SDA
SCL
MFP
VCC
MCP7940
Real Time Clock
32.768KHz
X2
BAT
BAT1
CR-2032/VCN
3V Lithium
>100mAH
R2D
100K_SIP6
C10
.1uF
U2C
74HC08
6-pin AVR ISP
Connector
N7
MISO
5V
SCK
MOSI
RESET
GND
AVR_ISP_HEADER
R6A
3K9_SIP5
R6B
3K9_SIP5
R2E
100K_SIP6
bus_raspberry_pi:Pin_Header_Straight_1x06
MCP24XX32A
VCC
WP
SCL
SDA
VSS
A2
A1
A0
U7
N1
3V3
5V
GPIO2_SDA1
5V
GPIO3_SCL1
GND
GPIO4_GPCLK0
GPIO14_TXD0
GND
GPIO15_RXD0
GPIO17_GEN0
GPIO18_GEN1
GPIO27_GEN2
GND
GPIO22_GEN3
GPIO23_GEN4
3V3
GPIO24_GEN5
GPIO10_MOSI
GND
GPIO9_MISO
GPIO25_GEN6
GPIO11_SCLK
GPIO8_CE0_N
GND
GPIO7_CE1_N
EEPROM_ID_SDA
EEPROM_I2C_SCL
GPIO05
GND
GPIO06
GPIO12
GPIO13
GND
GPIO19
GPIO16
GPIO26
GPIO20
GND
GPIO21
RASPI_CONNECTOR_40
BBB Console
N5
RTS
RXD
TXD
VCC
CTS
GND
FTDI_HEADER
U2D
74HC08
Note: U1 has ground connected to
pin 7 and VCC connected to pin 14.
VCC = 3.3V
R6C
3K9_SIP5
R6D
3K9_SIP5
J1
OFF
COM
ON
Bus Termination
TERMINATE_JUMPER
R1
120 1%
R4
470
R5
470
N3
LPWR1
LPWR2
LGND1
LGND2
CANH
CANL
BGND1
BGND2
BPWR1
BPWR2
LPWR
BUS_HEADER
Bus Header
Bus Transceiver
U3
STBY
CANH
CANL
VIO
TXD
VSS
VDD
RXD
MCP2562
+5V
J2
POWER
D13
LED
LED
LED_JUMPER
D2
LED
Jumper 1-3: Power LED
Jumper 2-4: D13 LED
Jumper 3-4: No LED
N8
RESET
RXD
TXD
GND
SERIAL_CONNECTOR
Extra Serial Connector
U4
VIN
VOUT
GND
L78L05AC
U6
L78L33AC
VCC
C9
1uF
C8
1uF
C11
.1uF
C3
.1uF
C4
.1uF
C5
.1uF
C7
.1uF
C12
.1uF
C13
.1uF
Filter Capacitors
Sheet: /
File: bus_raspberry_pi.sch
Title: Bus Raspberry Pi
Size: A
Date: Tue 13 Jan 2015
Rev: B
KiCad E.D.A. kicad (2014-jul-16 BZR unknown)-product
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