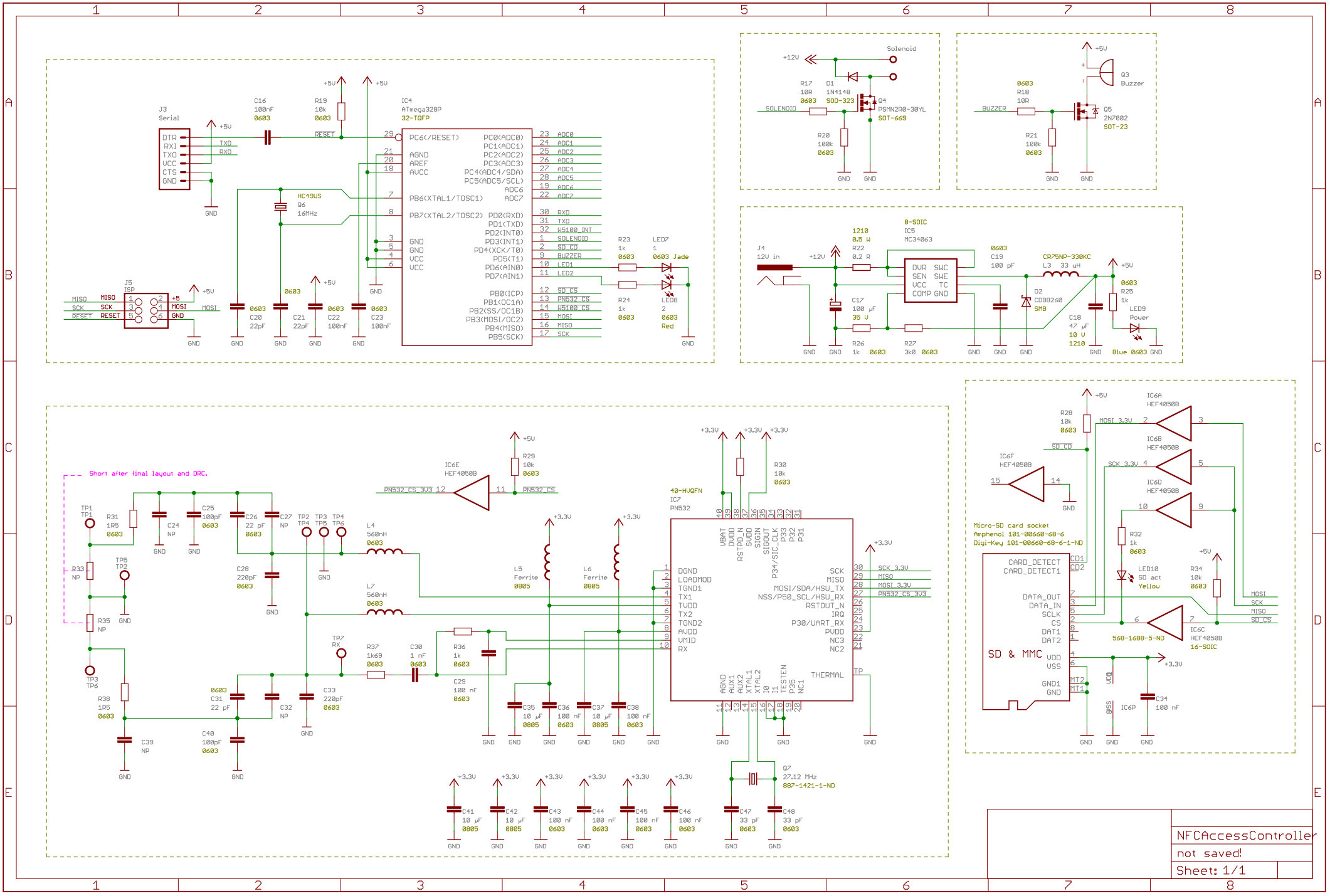
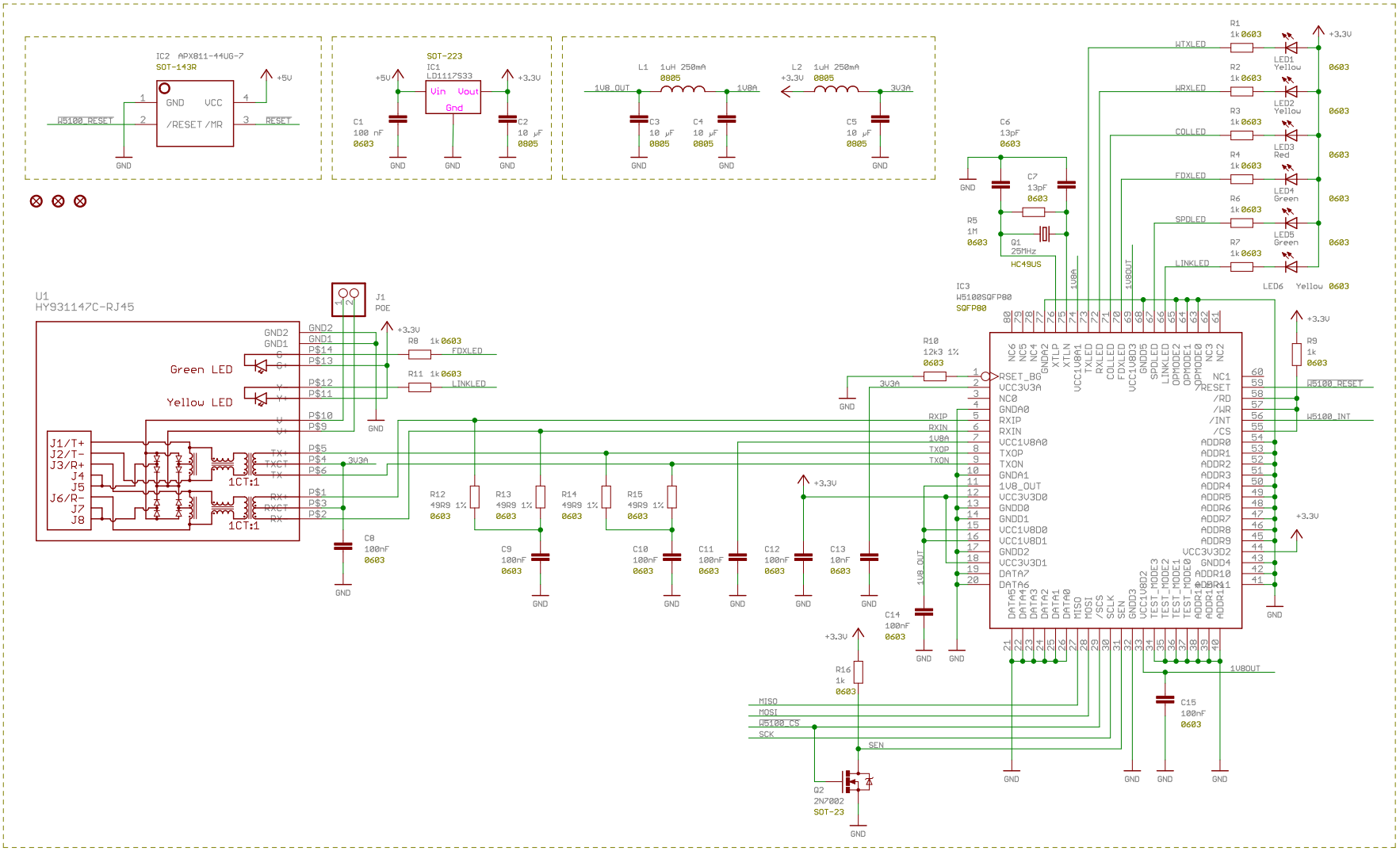

J3
Serial
DTR
RXI
TXO
VCC
CTS
GND
TXD
RXD
C16
100nF
0603
R19
10k
0603
RESET
IC4
ATmega328P
32-TQFP
PC6(/RESET)
AGND
AREF
AVCC
PB6(XTAL1/TOSC1)
PB7(XTAL2/TOSC2)
GND
GND
VCC
VCC
PC0(ADC0)
PC1(ADC1)
PC2(ADC2)
PC3(ADC3)
PC4(ADC4/SDA)
PC5(ADC5/SCL)
ADC6
ADC7
PD0(RXD)
PD1(TXD)
PD2(INT0)
PD3(INT1)
PD4(XCK/T0)
PD5(T1)
PD6(AIN0)
PD7(AIN1)
PB0(ICP)
PB1(OC1A)
PB2(SS/OC1B)
PB3(MOSI/OC2)
PB4(MISO)
PB5(SCK)
ADC0
ADC1
ADC2
ADC3
ADC4
ADC5
ADC6
ADC7
RXD
TXD
W5100_INT
SOLENOID
SD_CD
BUZZER
LED1
LED2
SD_CS
PN532_CS
W5100_CS
MOSI
MISO
SCK
HC49US
Q6
16MHz
J5
ISP
MISO
SCK
RESET
MOSI
C20
22pF
C21
22pF
C22
100nF
C23
100nF
R23
1k
0603
R24
1k
0603
LED7
1
0603 Jade
LED8
2
0603
Red
Solenoid
+12V
R17
10R
0603
D1
1N4148
SOD-323
Q4
PSMN2R0-30YL
SOT-669
SOLENOID
R20
100k
0603
Q3
Buzzer
BUZZER
R18
10R
0603
Q5
2N7002
SOT-23
R21
100k
0603
J4
12V in
+12V
R22
0.2 R
1210
0.5 W
IC5
MC34063
8-SOIC
DVR
SEN
VCC
COMP
SWC
SWE
TC
GND
C17
100 µF
35 V
R26
1k
0603
R27
3k0
0603
C19
100 pF
0603
D2
CDBB260
SMB
CR75NP-330KC
L3
33 uH
C18
47 µF
10 V
1210
R25
1k
0603
LED9
Power
Blue 0603
Short after final layout and DRC.
TP1
TP1
R31
1R5
0603
C24
NP
C25
100pF
0603
C26
22 pF
0603
C27
NP
TP2
TP3
TP4
TP4
TP5
TP6
L4
560nH
0603
L7
560nH
0603
R33
NP
TP5
TP2
R35
NP
C28
220pF
0603
TP3
TP6
R38
1R5
0603
C39
NP
C40
100pF
0603
C31
22 pF
C32
NP
C33
220pF
0603
TP7
RX
R37
1k69
0603
C30
1 nF
0603
R36
1k
0603
C29
100 nF
0603
IC6E
HEF4050B
PN532_CS_3V3
PN532_CS
R29
10k
0603
L5
Ferrite
0805
L6
Ferrite
0805
40-HVQFN
IC7
PN532
VBAT
DVDD
RSTPD_N
SVDD
SIGIN
SIGOUT
P34/SIC_CLK
P33
P32
P31
DGND
LOADMOD
TGND1
TX1
TVDD
TX2
TGND2
AVDD
VMID
RX
SCK
MISO
MOSI/SDA/HSU_TX
NSS/P50_SCL/HSU_RX
RSTOUT_N
IRQ
P30/UART_RX
PVDD
NC3
NC2
THERMAL
TP
AGND
AUX1
AUX2
XTAL1
XTAL2
I0
I1
TESTEN
P35
NC1
SCK_3.3V
MISO
MOSI_3.3V
PN532_CS_3V3
R30
10k
0603
C35
10 µF
0805
C36
100 nF
0603
C37
10 µF
0805
C38
100 nF
0603
C41
10 µF
0805
C42
10 µF
0805
C43
100 nF
0603
C44
100 nF
0603
C45
100 nF
0603
C46
100 nF
0603
Q7
27.12 MHz
887-1421-1-ND
C47
33 pF
0603
C48
33 pF
0603
R28
10k
0603
MOSI_3.3V
SD_CD
IC6F
HEF4050B
IC6A
HEF4050B
IC6B
HEF4050B
SCK_3.3V
IC6D
HEF4050B
Micro-SD card socket
Amphenol 101-00660-68-6
Digi-Key 101-00660-68-6-1-ND
CARD_DETECT
CARD_DETECT1
CD1
CD2
DATA_OUT
DATA_IN
SCLK
CS
DAT1
DAT2
SD & MMC
VDD
VSS
GND1
GND
MT2
MT1
R32
1k
0603
LED10
SD act
Yellow
R34
10k
0603
MOSI
SCK
MISO
SD_CS
IC6C
HEF4050B
16-SOIC
568-1688-5-ND
C34
100 nF
IC6P
NFCAccessController
not saved!
Sheet: 1/1



NFC/Ethernet Access Controller

Luke Weston, 2012

http://github.com/lukeweston/NFCAccessController

Released under the CERN Open Hardware License:

http://ohwr.org/cernohl

open hardware

NFCAccessController	
not saved!	
Sheet: 1/1	