LED1
VCC3P3
RED
R1 1K
PA11

LED2
VCC3P3
YELLOW
R2 1K
LED_TEST

PB1

VCC3P3 L1 10UH
R3 50R TPOUT+
TCT
C1 0.01uF
R4 50R TPOUT-
R5 1k TPIN+
C2 0.01uF
R6 1k TPIN-

GND
C3 10uF

AMS1117-3p3
U2
VCC3P3
2 Vout GND Vin 3
C7 0.1UF
C8 1UF
C6 10UF
C9 0.1UF
D2 4148 VCC5V
R10 100K

VCC3P3
R11 100K
T_RST
C11 0.1uf

U1
1 VCAP VDD 28 VCC3P3
2 VSS LEDA 27 2.7K R7 LEDA C4
3 CLKOUT LEDB 26 2.7K R8 LEDB
4 INT(PB0) INT VDD 25 VCC3P3
5 WOL WOL OSC2 24
6 S2_MISO SO OSC1 23
7 S2_MOSI SI GND 22
8 S2_CLK SCK GND 21
9 CS CS VDDPLL 20 VCC3P3
10 RST RST VDD 19
11 GND GND GND 18
12 TPIN- TPIN- TPOUT+ 17 TPOUT+
13 TPIN+ TPIN+ TPOUT- 16 TPOUT-
14 RBIAS VDDTX 15
R9 2.7K
ENC28J60
SO
SI
SCK
Y1 25MHZ
30P
30P C5

C10 0.1UF
VCC3P3 GND PB8 BOOT0 PB7 PB6 PB5 PB4 PB3 PA15 PA14
48 47 46 45 44 43 42 41 40 39 38 37

U3 STM32

VCC3P3 1 vbat VDD 36 VCC3P3
PC13 2 PC13 VSS 35 GND
PC14 3 PC14 PA13 34 PA13
PC15 4 PC15 PA12 33 LED_TEST
OSCIN 5 OSC_IN PA11 32 PA11
OSCOUT 6 OSC_OUT PA10 31 U1_RXD
T_RST 7 /RST PA9 30 U1_TXD
GND 8 VSS PA8 29 PA8
VCC3P3 9 VDD RST 28 RST R131K
PA0 10 PA0 S2_MOSI 27 S2_MOSI
PA1 11 PA1 S2_MISO 26 S2_MISO
U2_TX 12 U2_TX S2_CK 25 S2_CLK
C12 0.1UF PB12 CS
PB12

13 14 15 16 17 18 19 20 21 22 23 24
U2_RX U2_CK SCK SO SI SI_MISO SI_MOSI PB0 PB1 PB2 PB10 PB11 VSS VDD
INT(PB0)
VCC3P3

8MHZ
Y2
OSCOUT 1 2 OSCIN
C13 20P C14 20P

R14 100K

R121K U1_RXD U1_TXD

P2 Header 9
LEDA 1
LEDB 2
TPIN+ 3
TPIN- 4
TPOUT- 5
TPOUT+ 6
TCT 7
PB10 8
PB11 9
R27 220 R28 220

P1 Header 10
PA13 R19 220 GND 1
VCC5V 2
3
T_RST 4
PA15 R21 220 5
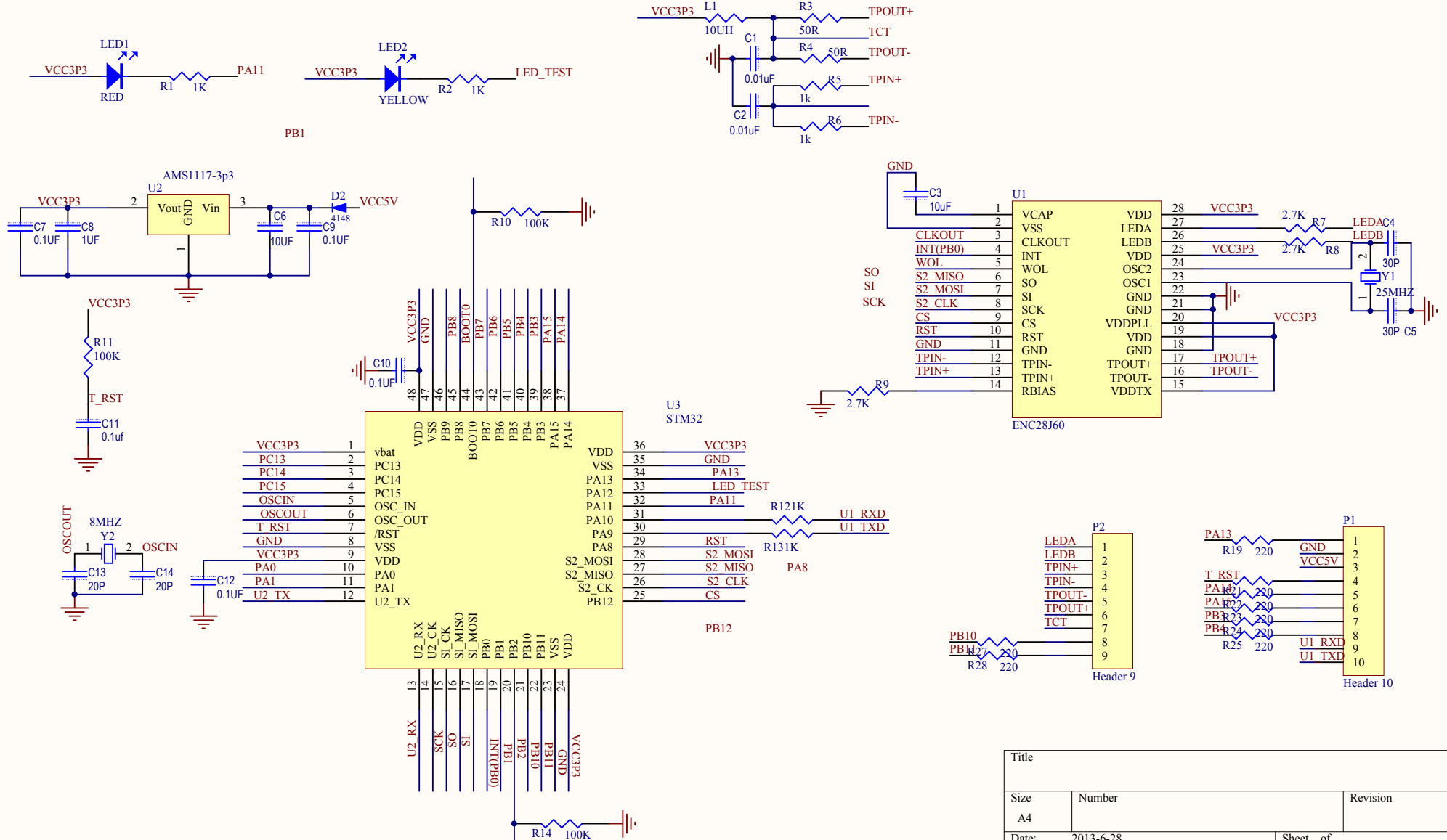PA14 R22 220 6
PB3 R23 220 7
PB4 R24 220 8
U1_RXD 9
U1_TXD 10
R25 220

Title
Size A4
Number
Revision
Date: 2013-6-28
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Approved	Notes		