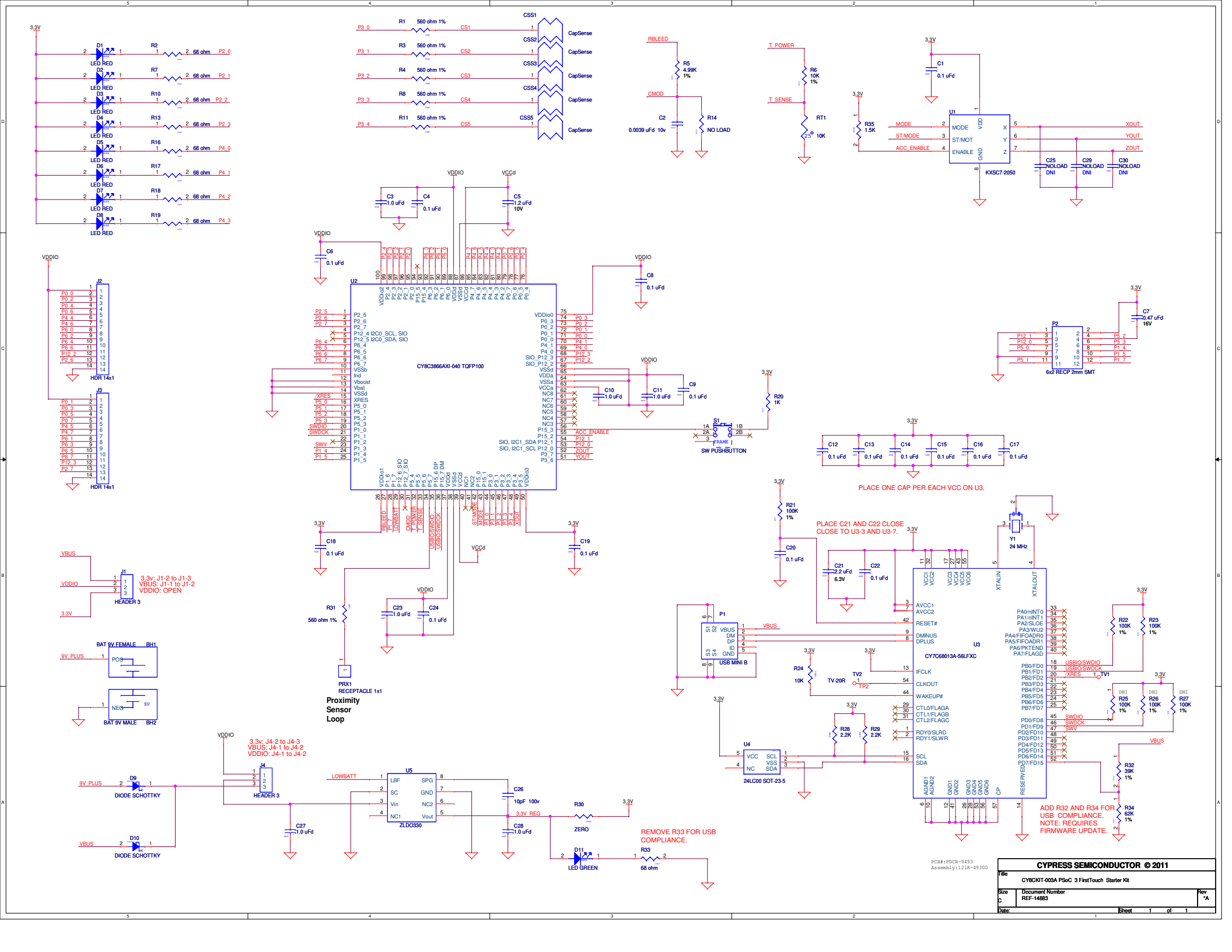
3.3V
D1 LED RED
D2 LED RED
D3 LED RED
D4 LED RED
D5 LED RED
D6 LED RED
D7 LED RED
D8 LED RED
R2 68 ohm P2_0
R7 68 ohm P2_1
R10 68 ohm P2_2
R13 68 ohm P2_3
R16 68 ohm P4_0
R17 68 ohm P4_1
R18 68 ohm P4_2
R19 68 ohm P4_3
R1 560 ohm 1% CS1
R3 560 ohm 1% CS2
R4 560 ohm 1% CS3
R8 560 ohm 1% CS4
R11 560 ohm 1% CS5
P3_0
P3_1
P3_2
P3_3
P3_4
CSS1
CSS2
CSS3
CSS4
CSS5
CapSense
RBLEED
R5 4.99K 1%
CMOD
C2 0.0039 uFd 10v
R14 NO LOAD
T_POWER
R6 10K 1%
T_SENSE
RT1 10K
C1 0.1 uFd
R35 1.5K
MODE
ST/MODE
ACC_ENABLE
U1
MODE
ST/MOT
ENABLE
VDD
GND
X
Y
Z
KXSC7-2050
XOUT
YOUT
ZOUT
C25 NOLOAD DNI
C29 NOLOAD DNI
C30 NOLOAD DNI
VDDIO
VCCd
C3 1.0 uFd
C4 0.1 uFd
C5 1.2 uFd 10V
C6 0.1 uFd
C8 0.1 uFd
U2
CY8C3866AXI-040 TQFP100
C10 1.0 uFd
C11 1.0 uFd
C9 0.1 uFd
R20 1K
S1
SW PUSHBUTTON
J2
HDR 14x1
J3
HDR 14x1
P2
6x2 RECP 2mm SMT
C7 0.47 uFd 16V
C12 0.1 uFd
C13 0.1 uFd
C14 0.1 uFd
C15 0.1 uFd
C16 0.1 uFd
C17 0.1 uFd
PLACE ONE CAP PER EACH VCC ON U3.
R21 100K 1%
C20 0.1 uFd
PLACE C21 AND C22 CLOSE
CLOSE TO U3-3 AND U3-7.
C21 2.2 uFd 6.3V
C22 0.1 uFd
Y1 24 MHz
U3
CY7C68013A-56LFXC
XTALIN
XTALOUT
RESET#
DMINUS
DPLUS
IFCLK
CLKOUT
WAKEUP#
CTL0/FLAGA
CTL1/FLAGB
CTL2/FLAGC
RDY0/SLRD
RDY1/SLWR
SCL
SDA
P1
USB MINI B
VBUS
R24 10K
TV2
TV-20R
TP2
TV1
R28 2.2K
R29 2.2K
U4
24LC00 SOT-23-5
R22 100K 1%
R23 100K 1%
R25 100K 1%
R26 100K 1%
R27 100K 1%
R32 39K 1%
R34 62K 1%
ADD R32 AND R34 FOR
USB COMPLIANCE.
NOTE: REQUIRES
FIRMWARE UPDATE.
C18 0.1 uFd
C19 0.1 uFd
C23 1.0 uFd
C24 0.1 uFd
R31 560 ohm 1%
PRX1
RECEPTACLE 1x1
Proximity
Sensor
Loop
J1
HEADER 3
3.3v: J1-2 to J1-3
VBUS: J1-1 to J1-2
VDDIO: OPEN
BAT 9V FEMALE BH1
BAT 9V MALE BH2
9V_PLUS
D9 DIODE SCHOTTKY
D10 DIODE SCHOTTKY
J4
HEADER 3
3.3v: J4-2 to J4-3
VBUS: J4-1 to J4-2
VDDIO: J4-1 to J4-2
U5
ZLDO330
LOWBATT
LBF
SC
Vin
NC1
SPG
GND
NC2
Vout
C26 10pF 100v
3.3V_REG
C27 1.0 uFd
C28 1.0 uFd
R30 ZERO
D11 LED GREEN
R33 68 ohm
REMOVE R33 FOR USB
COMPLIANCE.
PCB#:PDCR-9493
Assembly:121R-49300
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Title
CY8CKIT-003A PSoC 3 FirstTouch Starter Kit
Size C
Document Number REF-14883
Rev *A
Date:
Sheet 1 of 1