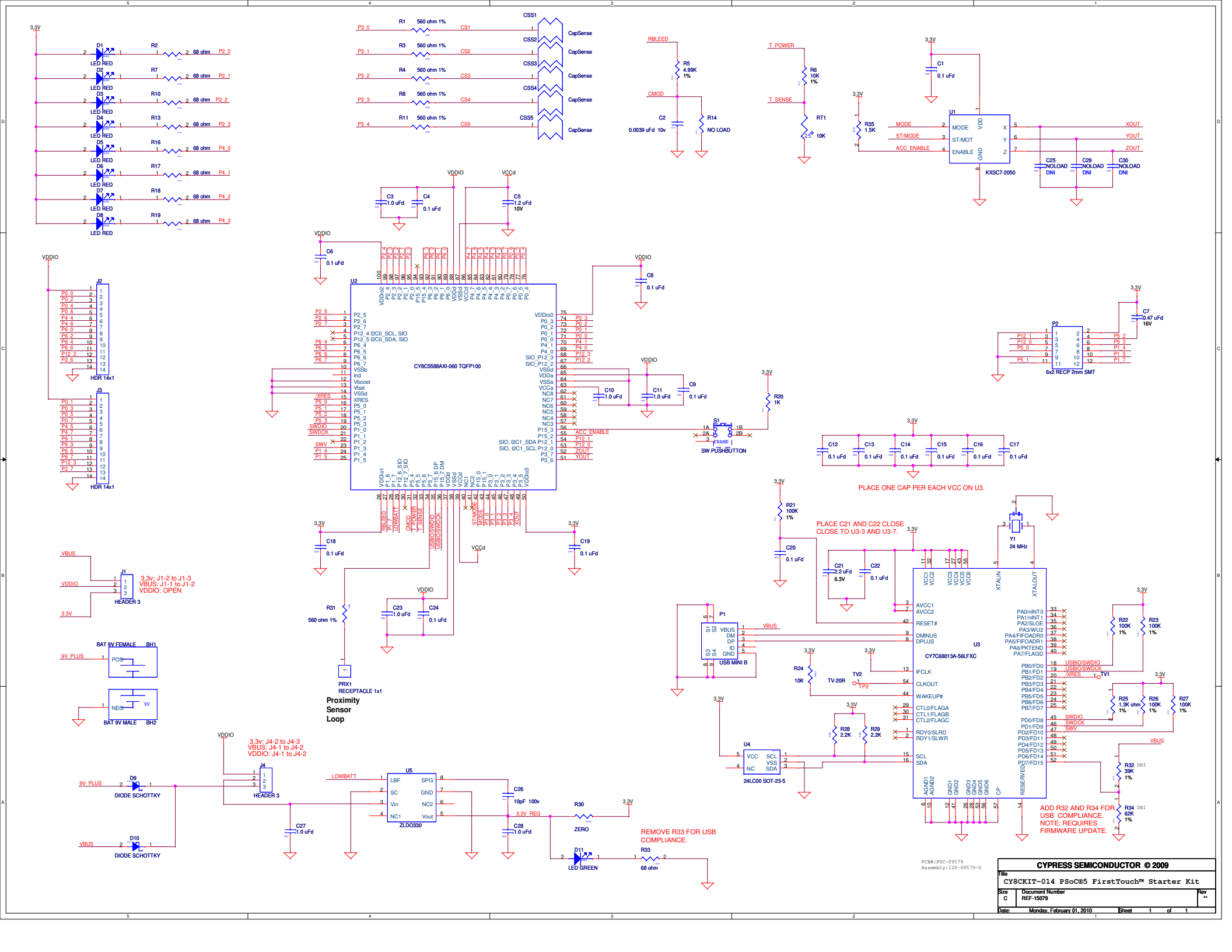
3.3V
D1 LED RED
D2 LED RED
D3 LED RED
D4 LED RED
D5 LED RED
D6 LED RED
D7 LED RED
D8 LED RED
R2 68 ohm P2_0
R7 68 ohm P2_1
R10 68 ohm P2_2
R13 68 ohm P2_3
R16 68 ohm P4_0
R17 68 ohm P4_1
R18 68 ohm P4_2
R19 68 ohm P4_3
R1 560 ohm 1% CS1
R3 560 ohm 1% CS2
R4 560 ohm 1% CS3
R8 560 ohm 1% CS4
R11 560 ohm 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/MOD
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
C9 0.1 uFd
C10 1.0 uFd
C11 1.0 uFd
J2
J3
HDR 14x1
U2
CY8C5588AXI-060 TQFP100
/XRES
SWDIO
SWDCK
SWV
ACC_ENABLE
ZOUT
YOUT
S1
SW PUSHBUTTON
R20 1K
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.
C18 0.1 uFd
C19 0.1 uFd
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
J1
HEADER 3
3.3v: J1-2 to J1-3
VBUS: J1-1 to J1-2
VDDIO: OPEN
R31 560 ohm 1%
PRX1
RECEPTACLE 1x1
Proximity Sensor Loop
C23 1.0 uFd
C24 0.1 uFd
P1
USB MINI B
VBUS
U3
CY7C68013A-56LFXC
XTALIN
XTALOUT
IFCLK
CLKOUT
WAKEUP#
RESET#
DMINUS
DPLUS
CTL0/FLAGA
CTL1/FLAGB
CTL2/FLAGC
RDY0/SLRD
RDY1/SLWR
SCL
SDA
R24 10K
TV2
TV-20R
TP2
TV1
R22 100K 1%
R23 100K 1%
R25 1.3K ohm 1%
R26 100K 1%
R27 100K 1%
R28 2.2K
R29 2.2K
U4
24LC00 SOT-23-5
USBIO/SWDIO
USBIO/SWDCK
/XRES
SWDIO
SWDCK
SWV
R32 39K 1% DNI
R34 62K 1% DNI
ADD R32 AND R34 FOR USB COMPLIANCE. NOTE: REQUIRES FIRMWARE UPDATE.
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
C27 1.0 uFd
U5
ZLDO330
LOWBATT
LBF
SC
Vin
NC1
SPG
GND
NC2
Vout
C26 10pF 100v
3.3V_REG
C28 1.0 uFd
R30 ZERO
D11 LED GREEN
R33 68 ohm
REMOVE R33 FOR USB COMPLIANCE.
PCB#:PDC-09579
Assembly:120-09579-0
CYPRESS SEMICONDUCTOR © 2009
Title
CY8CKIT-014 PSoC®5 FirstTouch™ Starter Kit
Size C
Document Number REF-15079
Rev **
Date: Monday, February 01, 2010
Sheet 1 of 1