CY8CPROTO-064B0S1-SSA Semper Secure Asymmetric Starter Kit

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Drawing	Numbers
PCBA	121-60594-01
PCB	600-60594-01
FAB DRW	610-60594-01
ASSY DRW	620-60594-01
SCH DRW	630-60594-01

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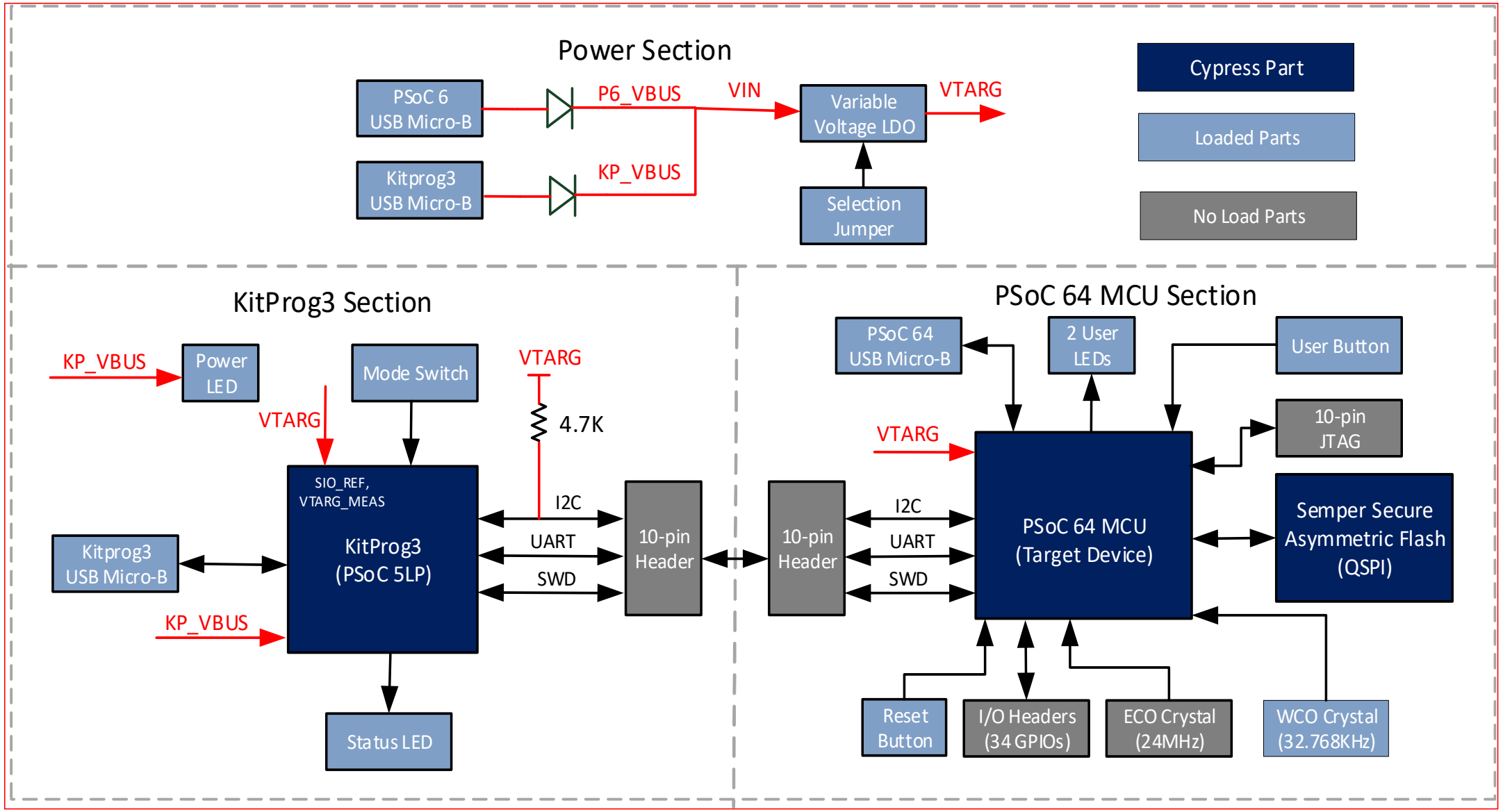
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Page Title : Title Page

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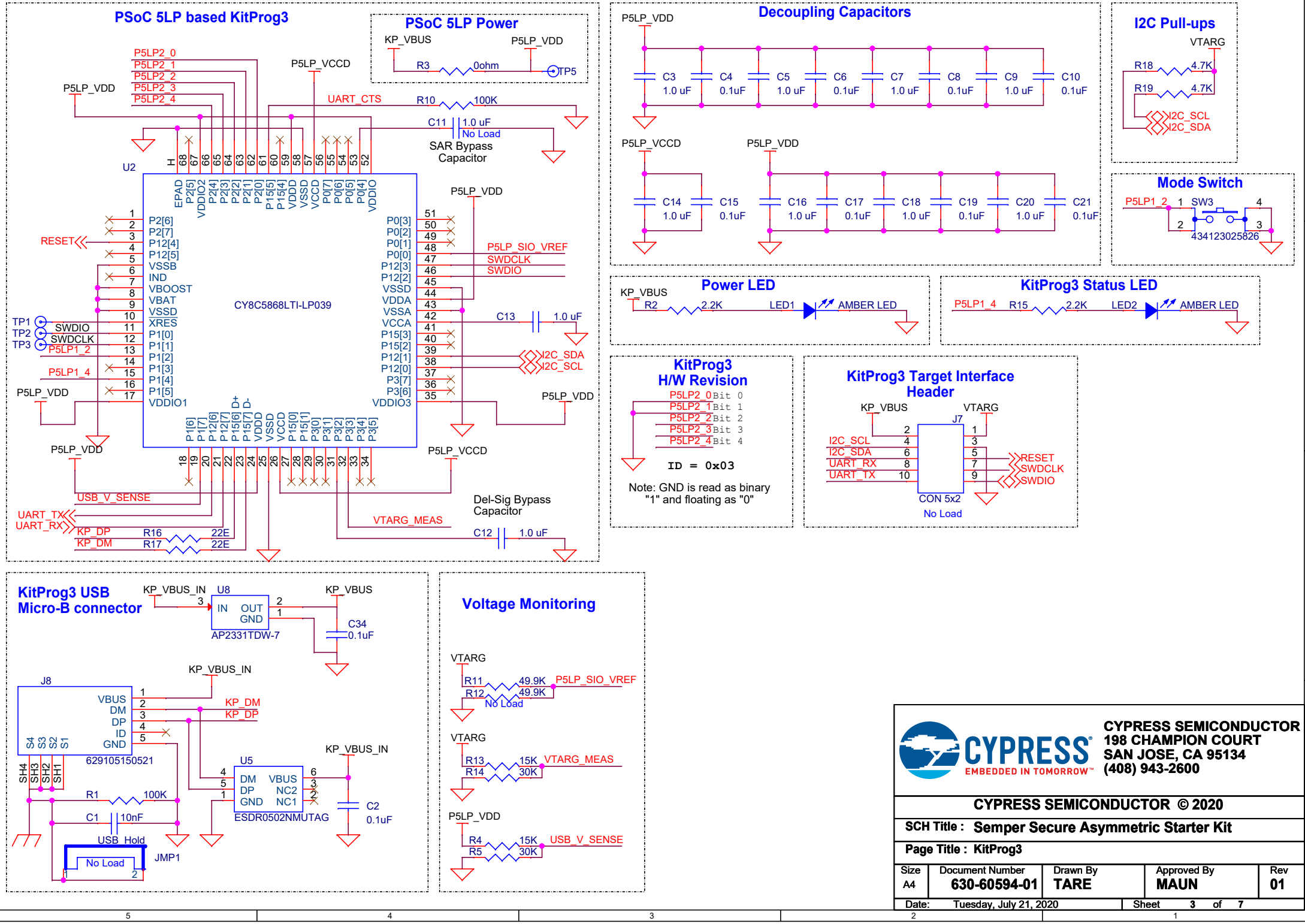
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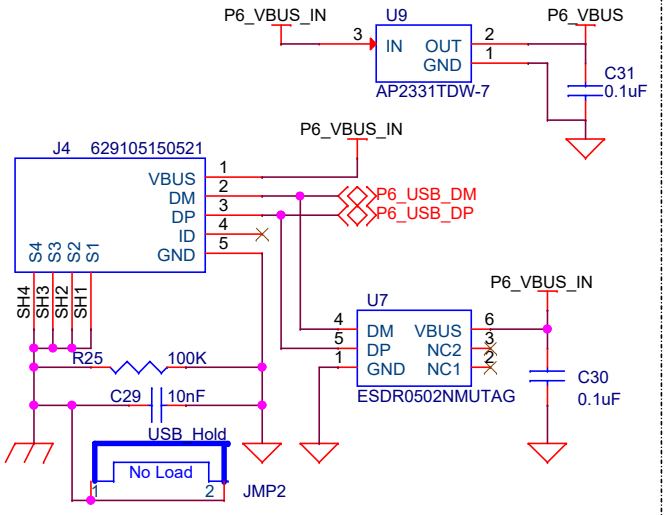
SCH Title :	Semper Secure Asymmetric Starter Kit
Page Title :	Block Diagram

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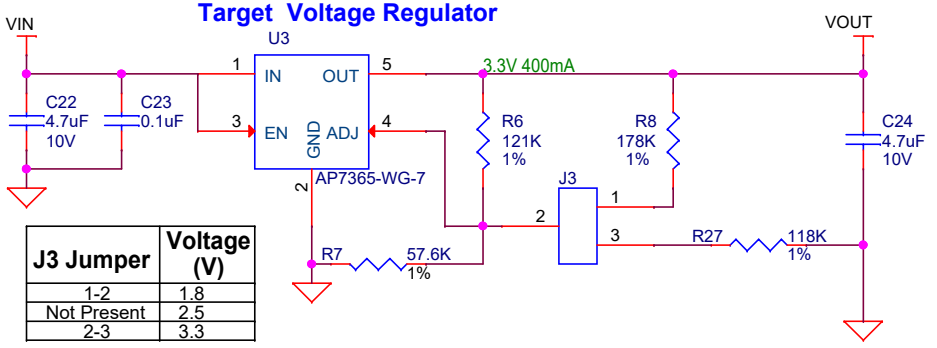
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PSoC 5LP based KitProg3
PSoC 5LP Power
KP_VBUS
P5LP_VDD
R3
0ohm
TP5
P5LP2_0
P5LP2_1
P5LP2_2
P5LP2_3
P5LP2_4
P5LP_VCCD
UART_CTS
R10
100K
C11
1.0 uF
No Load
SAR Bypass Capacitor
U2
CY8C5868LTI-LP039
RESET
SWDIO
SWDCLK
P5LP1_2
P5LP1_4
TP1
TP2
TP3
P5LP_SIO_VREF
I2C_SDA
I2C_SCL
C13
1.0 uF
USB_V_SENSE
UART_TX
UART_RX
KP_DP
KP_DM
R16
R17
22E
VTARG_MEAS
C12
Del-Sig Bypass Capacitor
Decoupling Capacitors
C3
C4
C5
C6
C7
C8
C9
C10
C14
C15
C16
C17
C18
C19
C20
C21
1.0 uF
0.1uF
I2C Pull-ups
VTARG
R18
R19
4.7K
Mode Switch
SW3
434123025826
Power LED
R2
2.2K
LED1
AMBER LED
KitProg3 Status LED
R15
LED2
KitProg3 H/W Revision
Bit 0
Bit 1
Bit 2
Bit 3
Bit 4
ID = 0x03
Note: GND is read as binary "1" and floating as "0"
KitProg3 Target Interface Header
J7
CON 5x2
No Load
KitProg3 USB Micro-B connector
KP_VBUS_IN
U8
AP2331TDW-7
C34
0.1uF
J8
629105150521
R1
100K
C1
10nF
USB_Hold
JMP1
U5
ESDR0502NMUTAG
C2
Voltage Monitoring
R11
R12
49.9K
R13
R14
15K
30K
R4
R5
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PSoC 64 MCU USB Device Micro-B connector

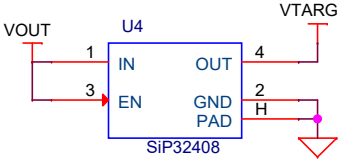


Target Voltage Regulator

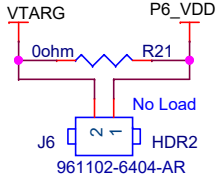


J3 Jumper	Voltage (V)
1-2	1.8
Not Present	2.5
2-3	3.3

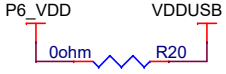
Reverse Voltage Protection



Current Measurement Header

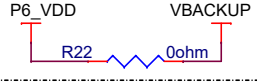


PSoC 64 MCU USB Voltage

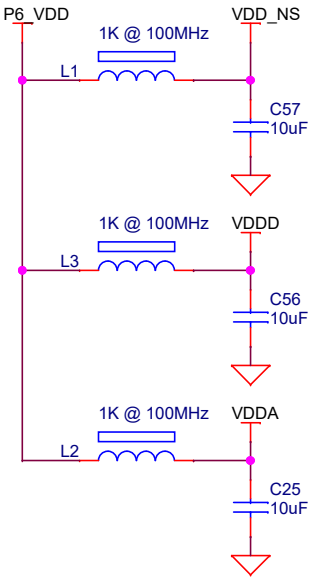


Note: USB functionality will work only at 3.3V

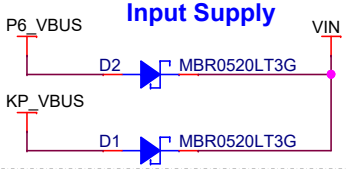
VBACKUP



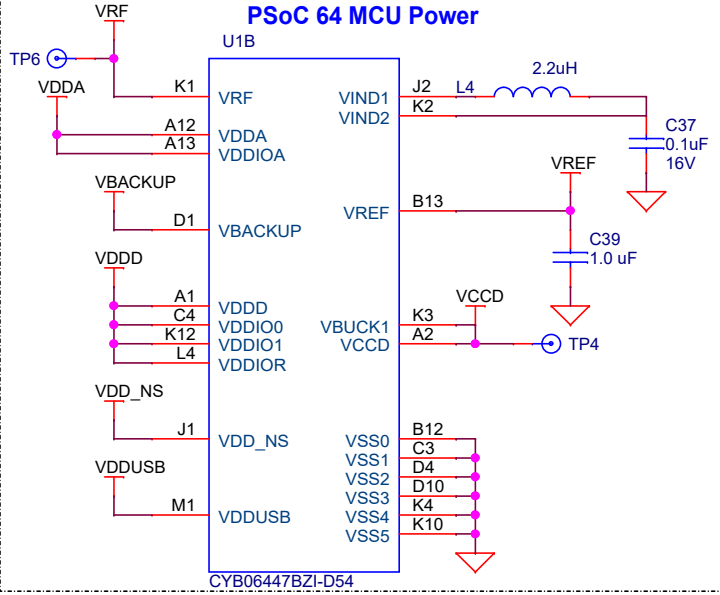
PSoC 64 MCU Power IN



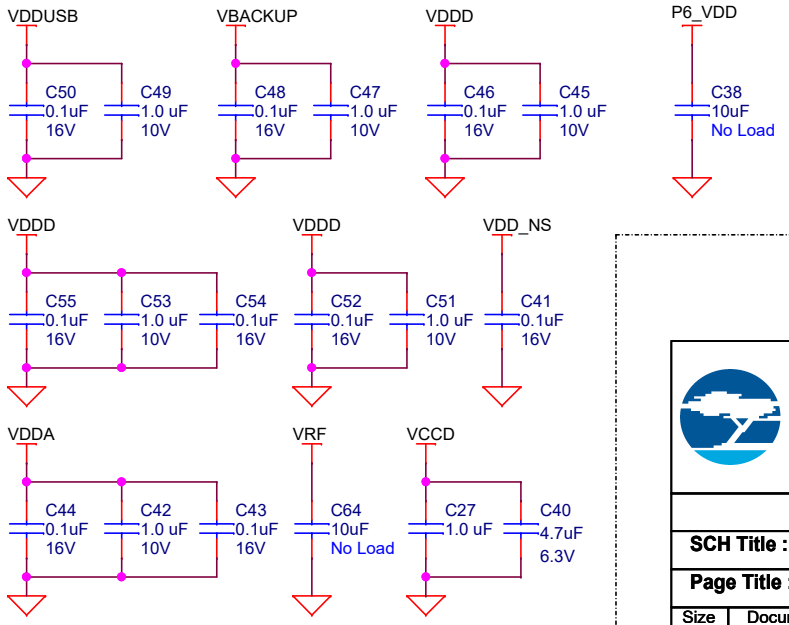
Input Supply



PSoC 64 MCU Power



PSoC 64 MCU Decoupling Capacitors



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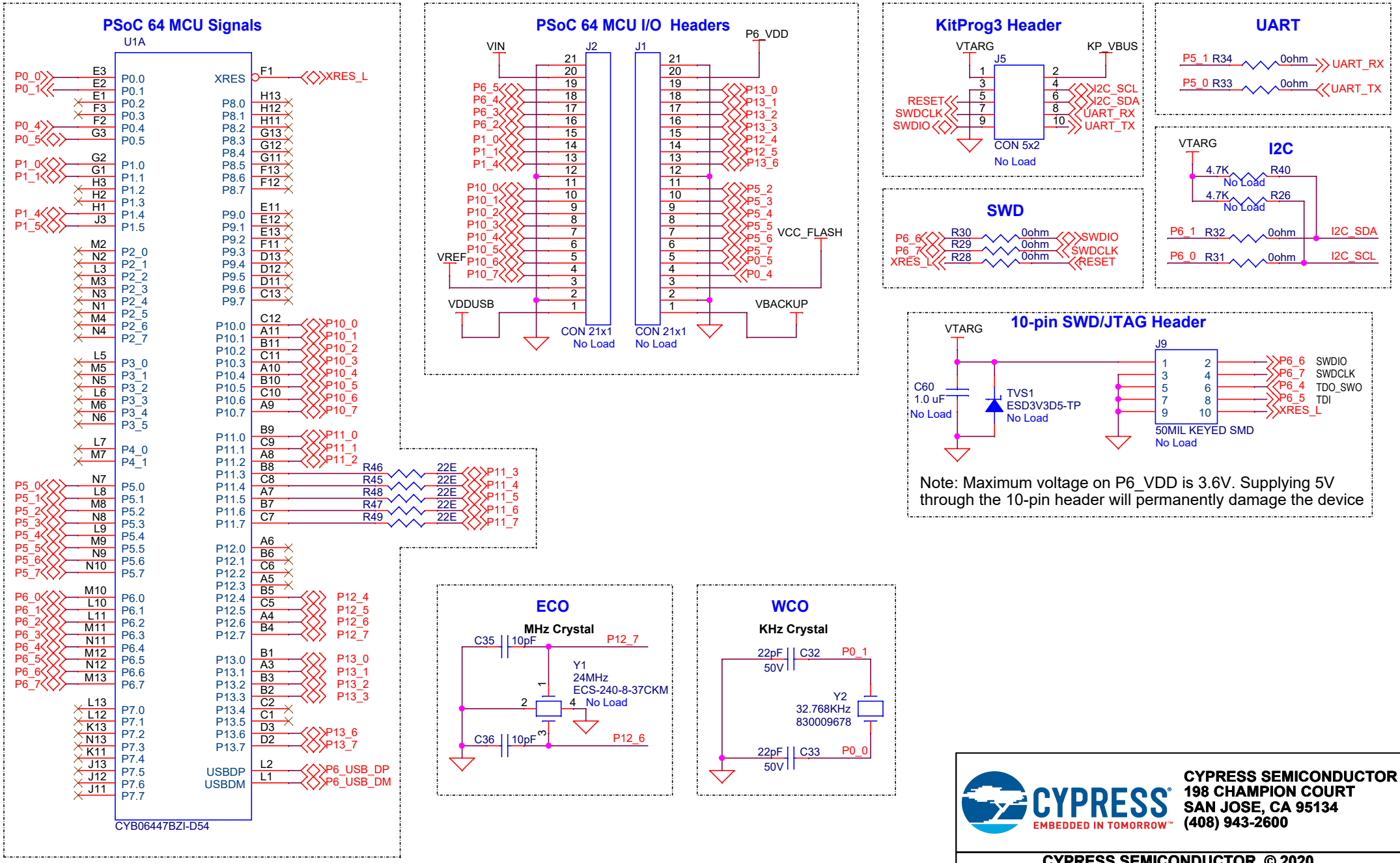
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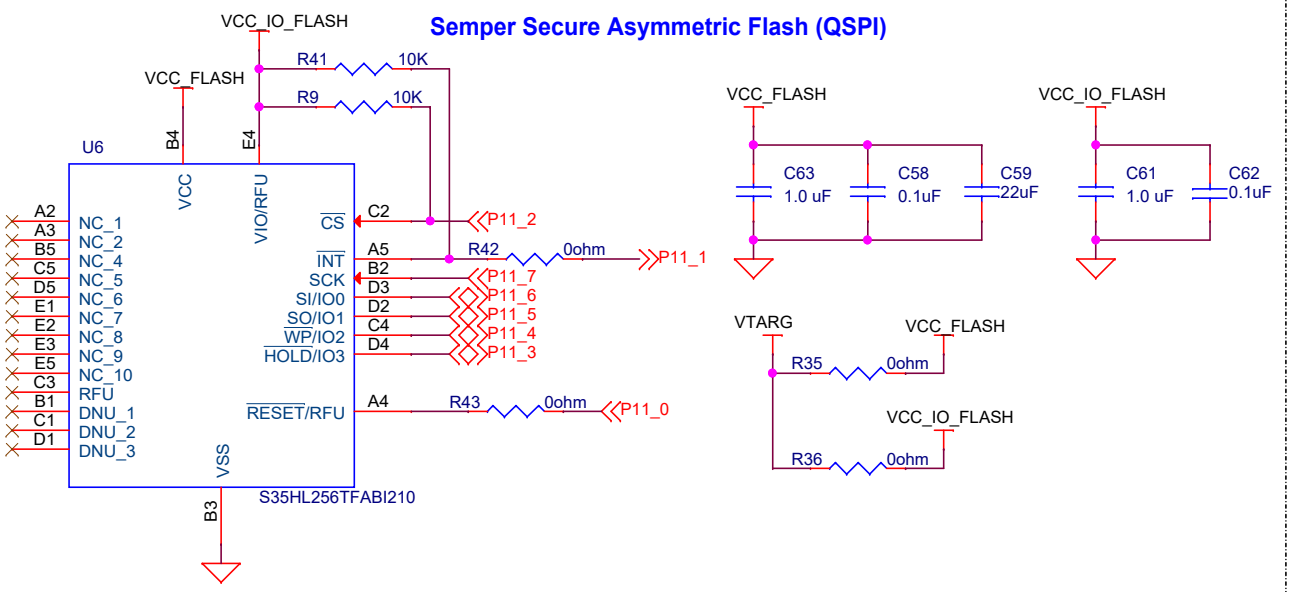


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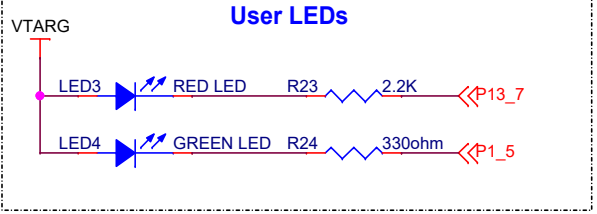
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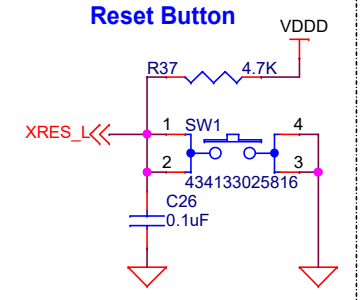
Semper Secure Asymmetric Flash (QSPI)



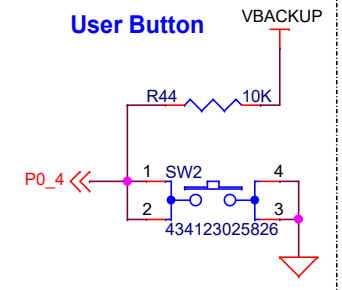
User LEDs



Reset Button



User Button



Accessories

PCBA label

LBL PCA Label

Bump-ons

RBS-27 RBS-27 RBS-27 RBS-27

Jumper Shunt

60900213421

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REVISION HISTORY

REV	DESCRIPTION OF CHANGE	DATE
01	Initial release	2020/07/15

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