CY8CPROTO-064B0S3 PSoC 64 Secure Boot Prototyping Kit with 512K Flash

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Drawing Numbers	
PCBA	121-60577-01
PCB	600-60577-01
FAB DRW	610-60577-01
ASSY DRW	620-60577-01
SCH DRW	630-60577-01

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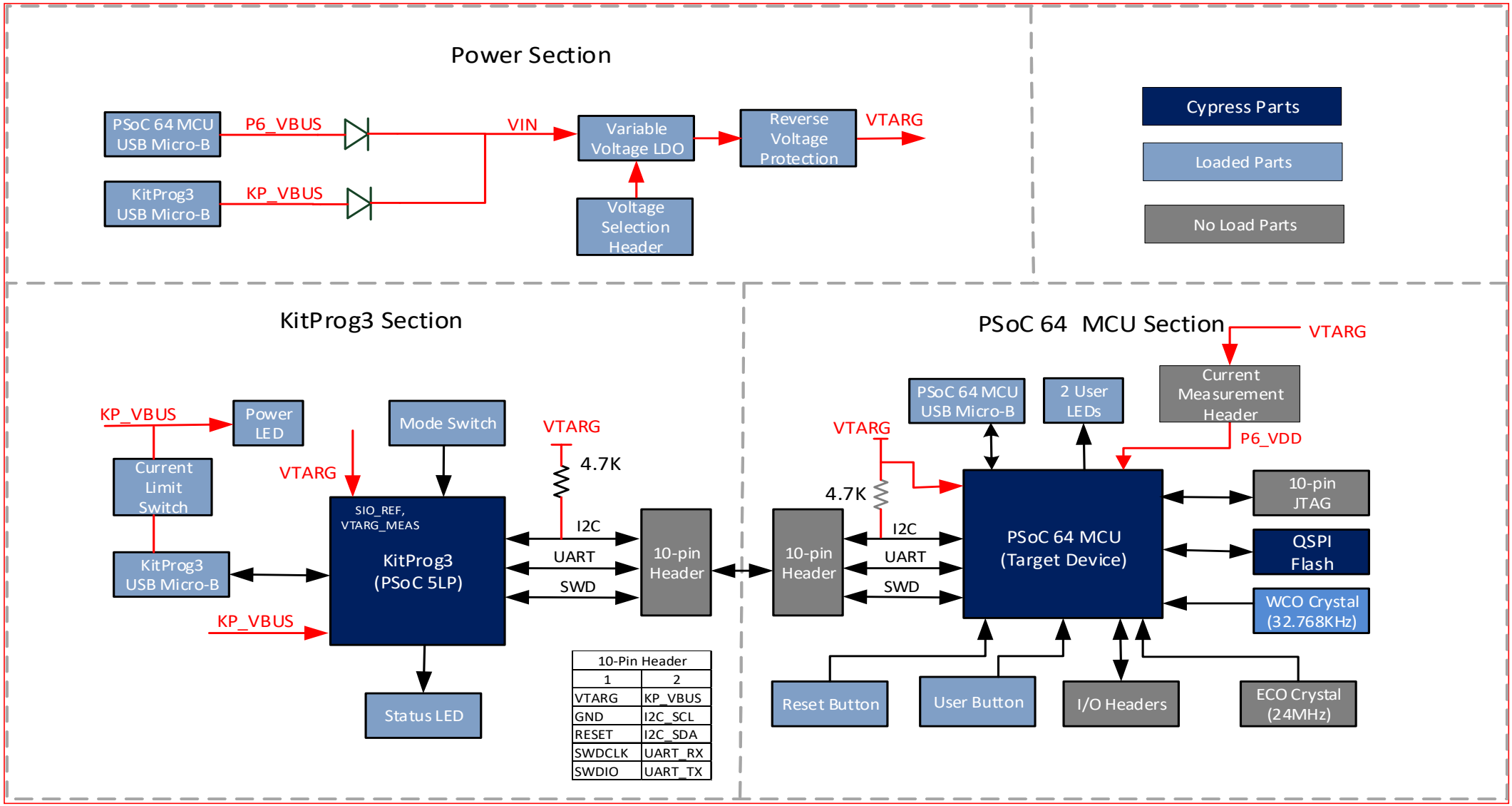
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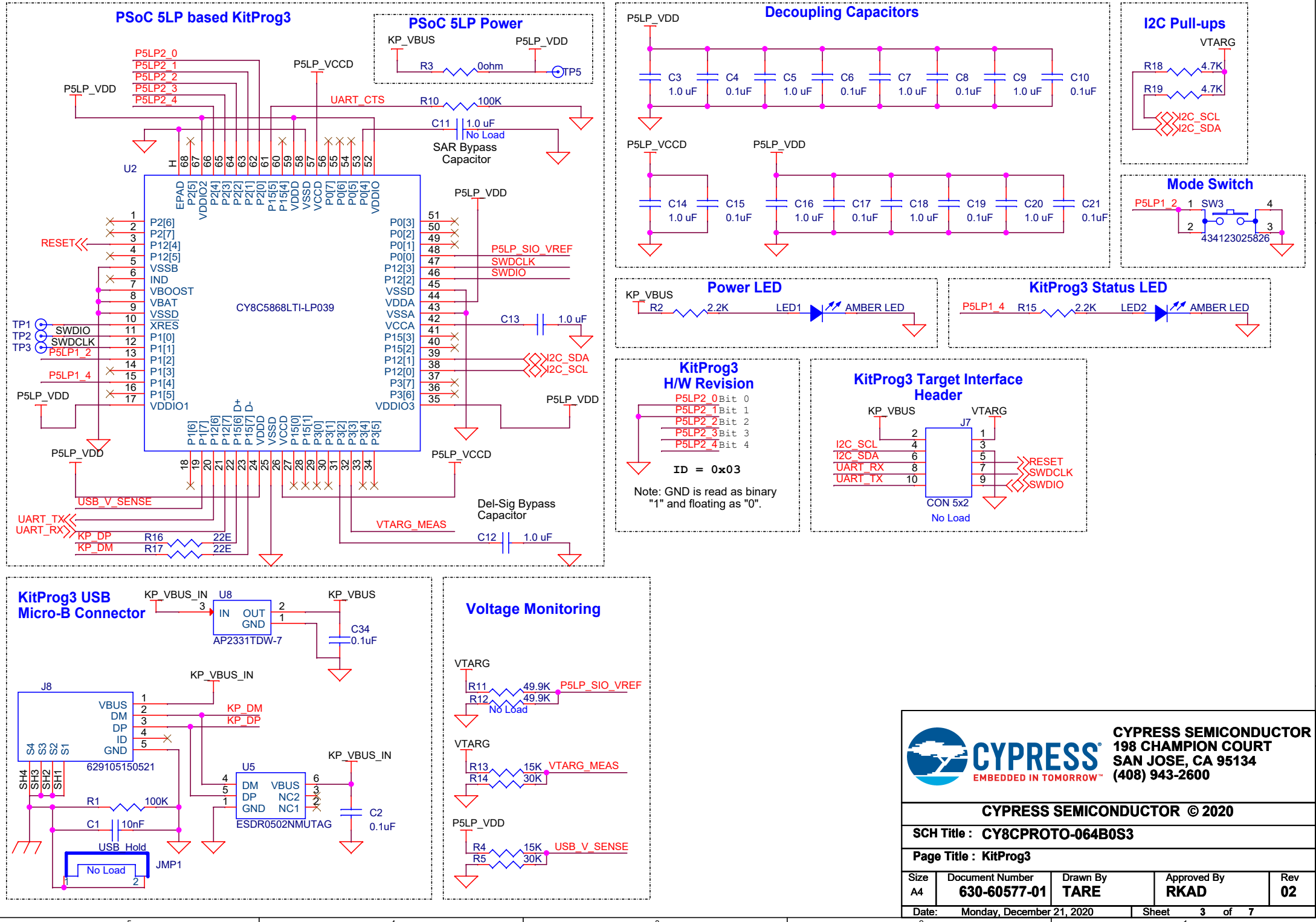
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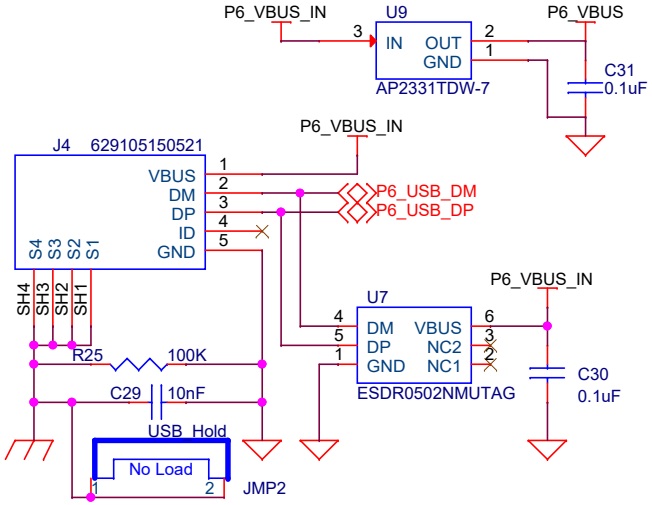
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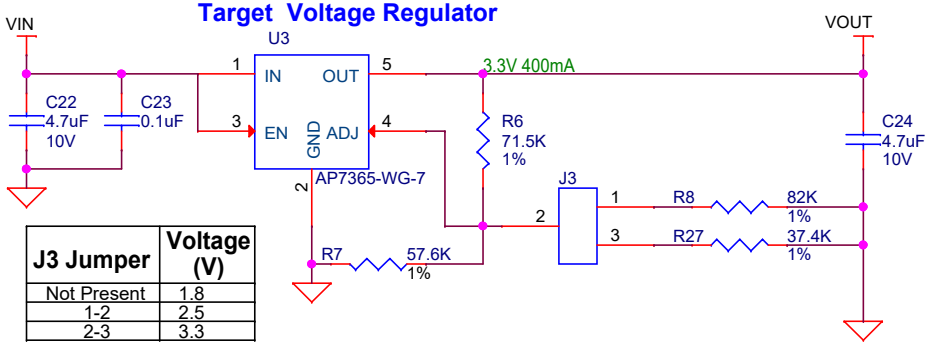
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Page Title : Block Diagram				
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PSoC 5LP based KitProg3
PSoC 5LP Power
KP_VBUS
P5LP_VDD
R3
0ohm
TP5
P5LP_VCCD
P5LP2_0
P5LP2_1
P5LP2_2
P5LP2_3
P5LP2_4
UART_CTS
R10
100K
C11
1.0 uF
No Load
SAR Bypass 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

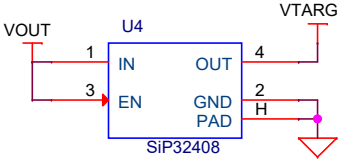


Target Voltage Regulator

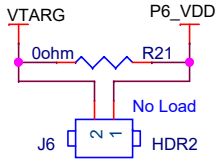


J3 Jumper	Voltage (V)
Not Present	1.8
1-2	2.5
2-3	3.3

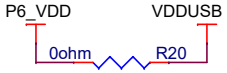
Reverse Voltage Protection



Current Measurement Header

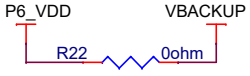


PSoC 64 MCU USB Voltage

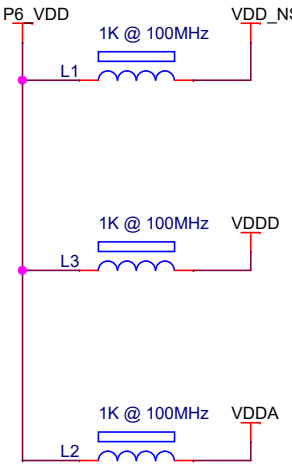


Note: USB functionality will work only at 3.3V.

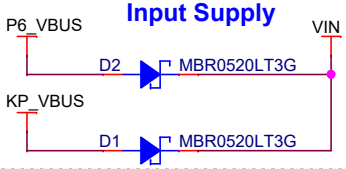
VBACKUP



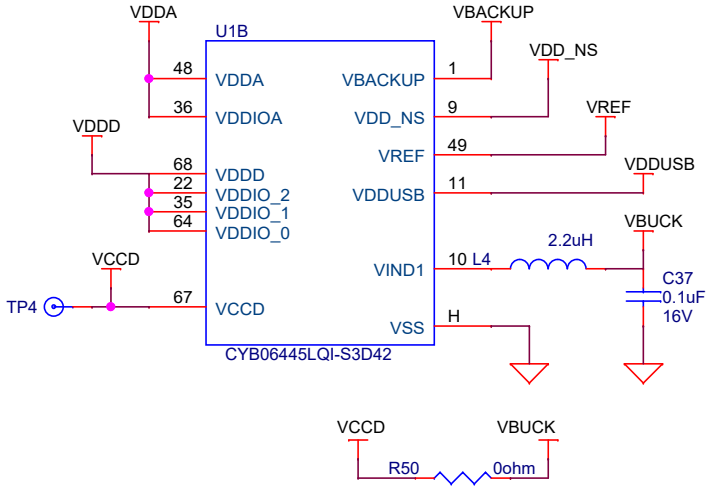
PSoC 64 MCU Power IN



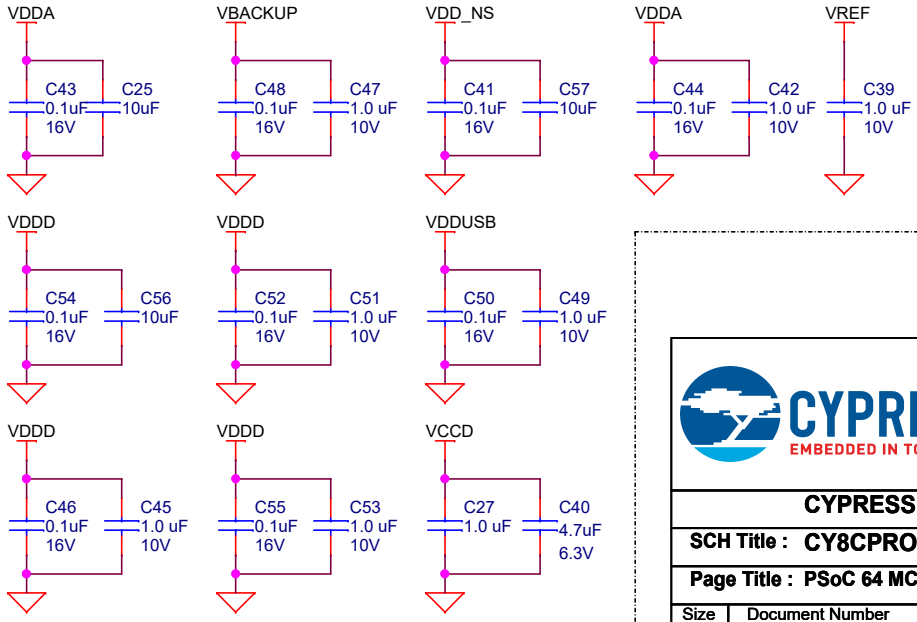
Input Supply



PSoC 64 MCU Power



PSoC 64 MCU Decoupling Capacitors



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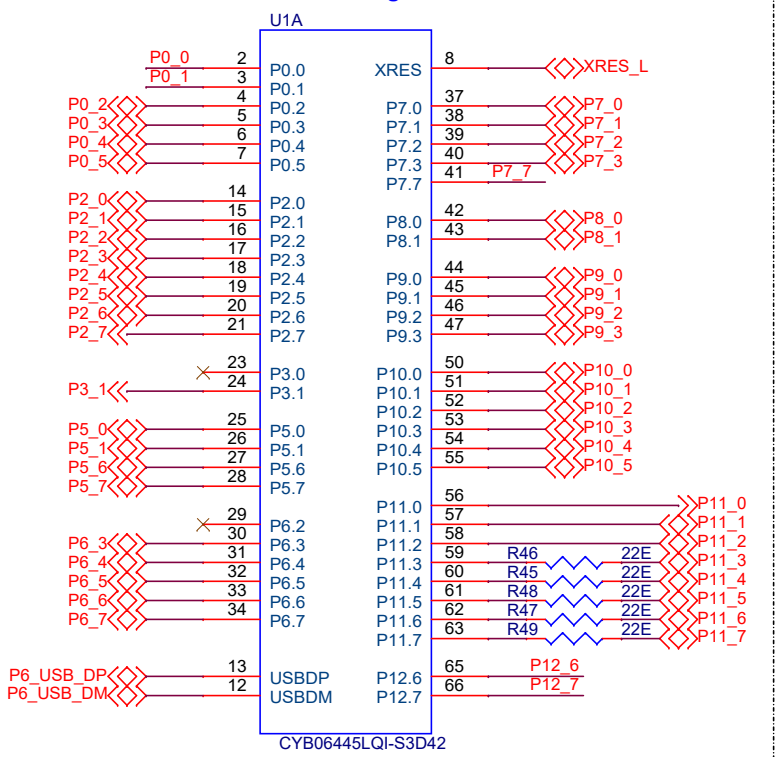
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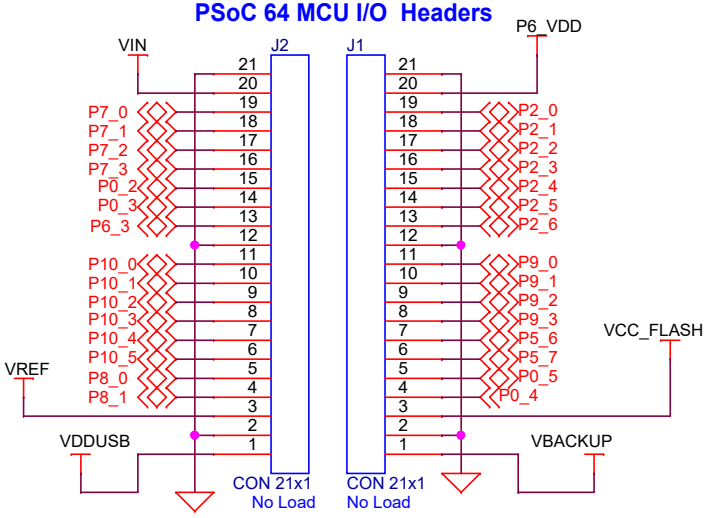
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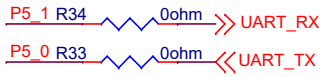
PSoC 64 MCU Signals



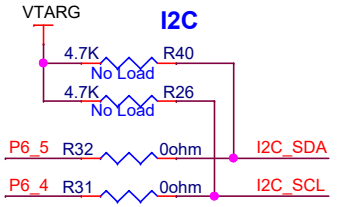
PSoC 64 MCU I/O Headers



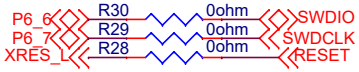
UART



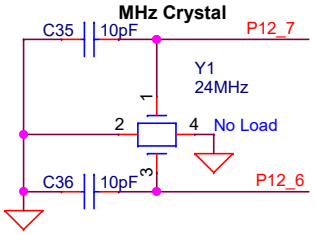
I2C



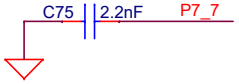
SWD



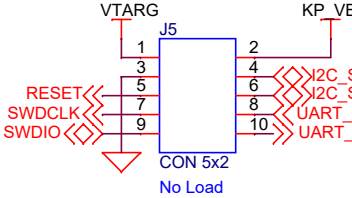
ECO



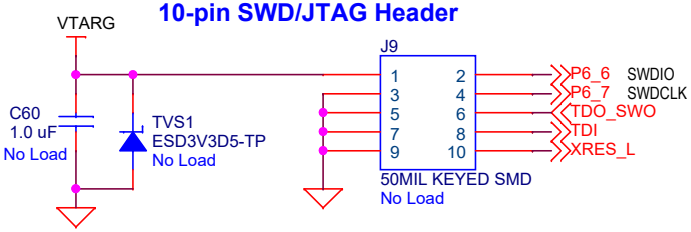
CMOD



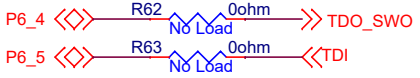
KitProg3 Header



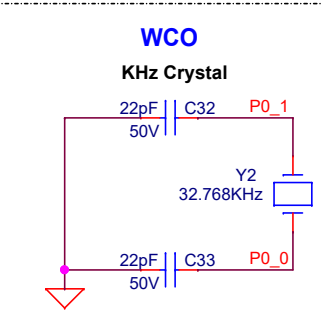
10-pin SWD/JTAG Header



Note: Maximum voltage on P6_VDD is 3.6V. Supplying 5V through the 10-pin header will permanently damage the device.



WCO

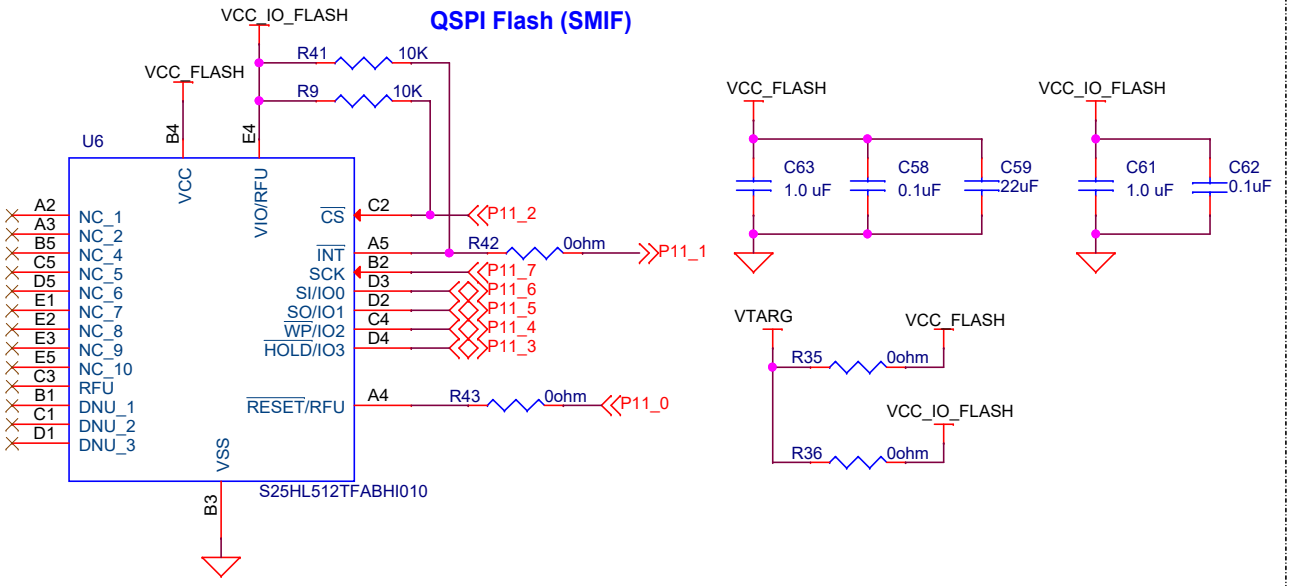


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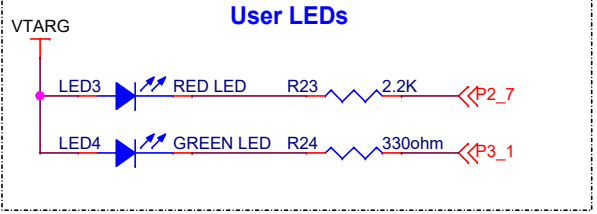
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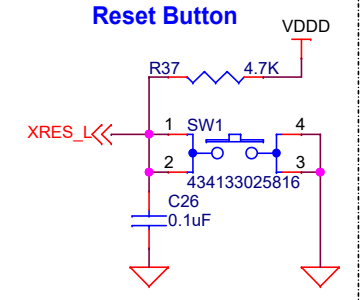
QSPI Flash (SMIF)



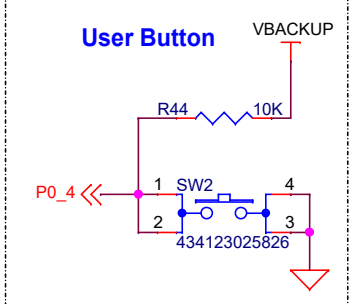
User LEDs



Reset Button



User Button



Accessories

PCBA label

LBL PCA Label

Bump-ons

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

Jumper Shunt

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REVISION HISTORY

REV	DESCRIPTION OF CHANGE	DATE
01	Initial Internal Release	2020/01/14
02	Initial Release	2020/01/20

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