

PSoC 6 WiFi-BT Remote Control Board

CONTENTS	
PAGE	DESCRIPTION
01	Title & Table of Contents
02	Block Diagram
03	KitProg2
04	PSoC 6 Module Power
05	PSoC 6 Module Signals
06	IMU and Accessories
07	Revision History

Drawing Numbers	
PCBA	121-INT0061-01
PCB	600-INT0061-01
FAB DRW	610-INT0061-01
ASSY DRW	620-INT0061-01
SCH DRW	630-INT0061-01



CYPRESS
EMBEDDED IN TOMORROW™

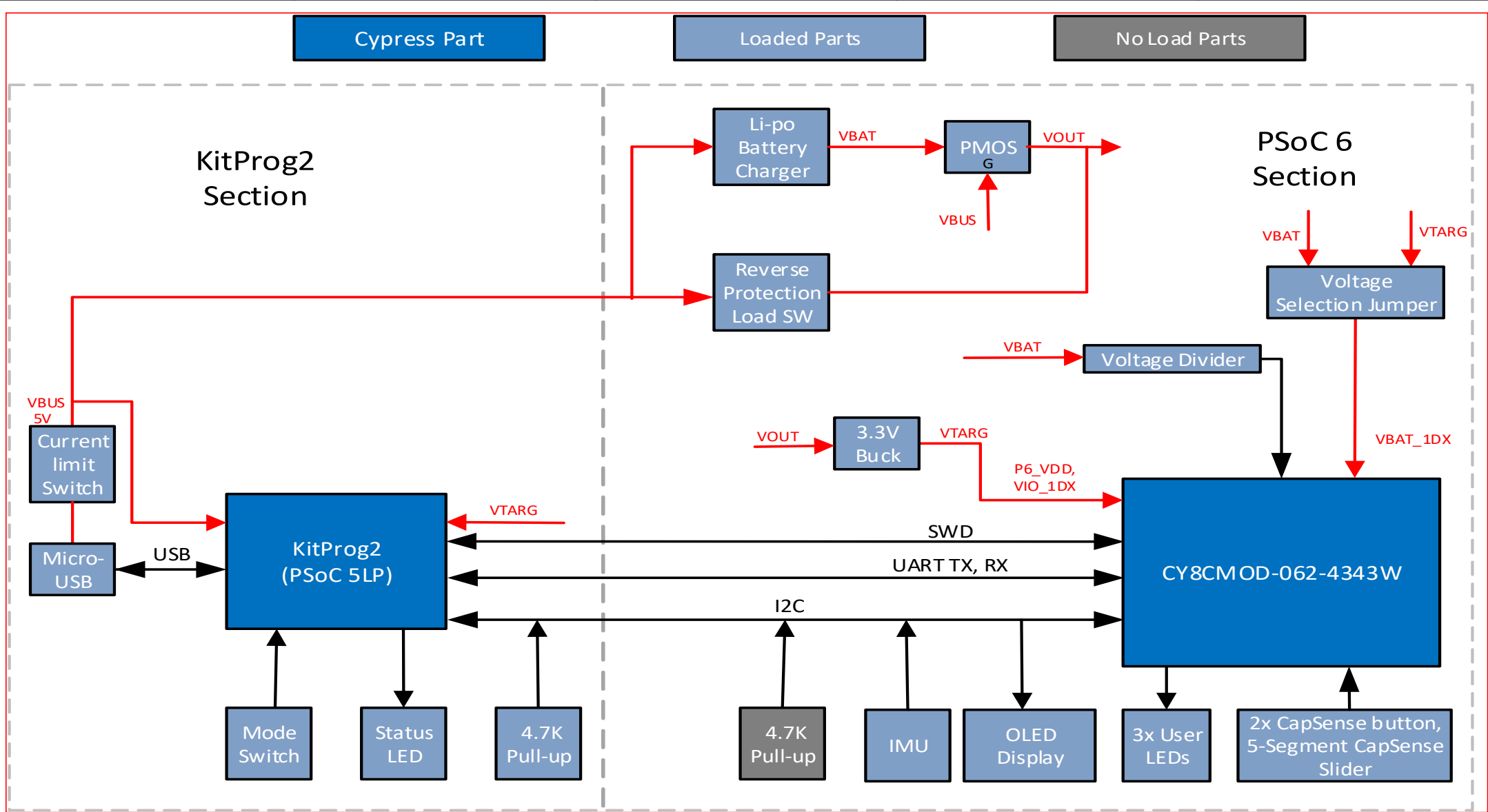
CYPRESS SEMICONDUCTOR
198 CHAMPION COURT
SAN JOSE, CA 95134
(408) 943-2600

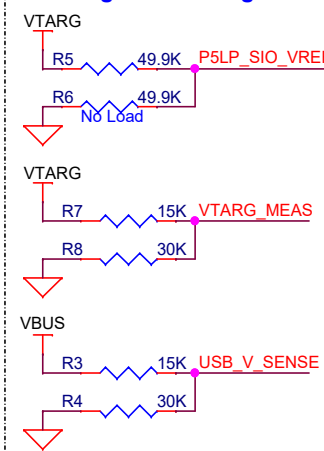
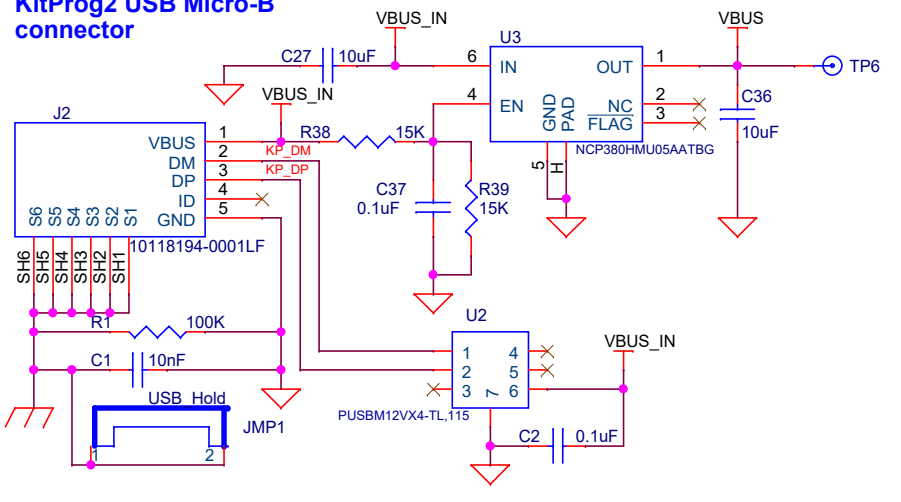
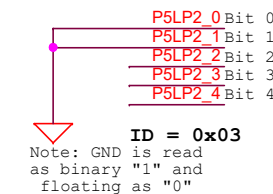
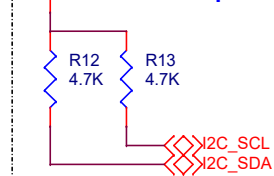
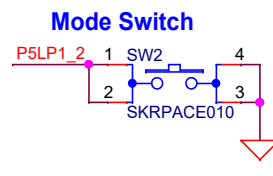
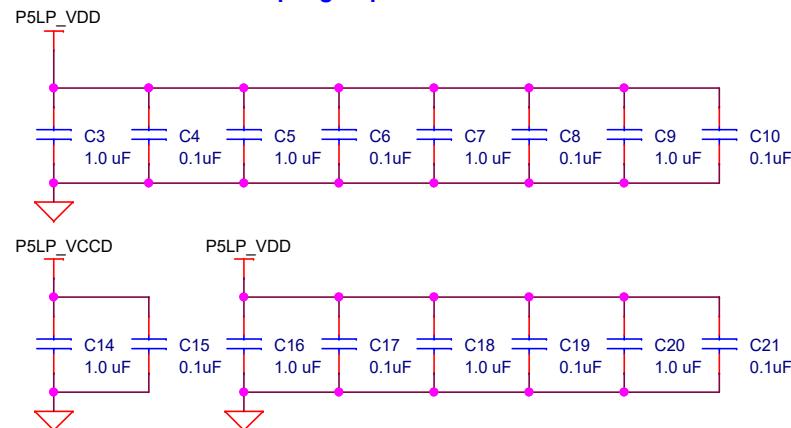
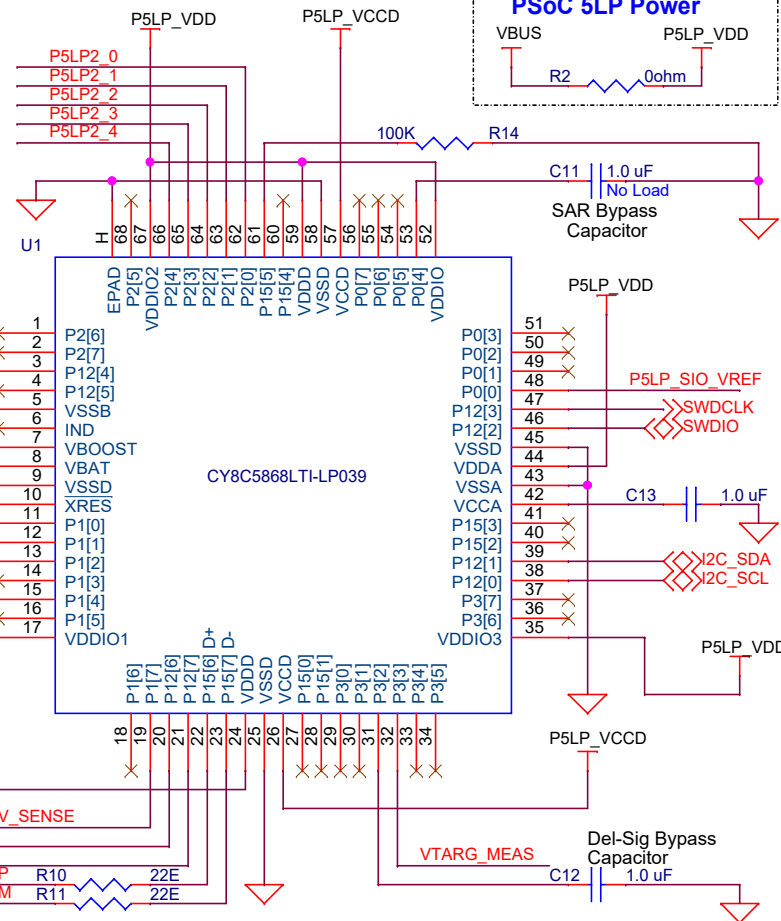
CYPRESS SEMICONDUCTOR © 2018

SCH Title : PSoC 6 WiFi-BT remote control board

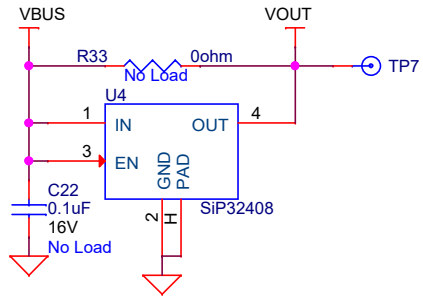
Page Title : Title Page

Size A4	Document Number 630-INT0061-01	Drawn By TARE	Approved By RKAD	Rev 00.7
Date:	Monday, September 10, 2018		Sheet	1 of 7

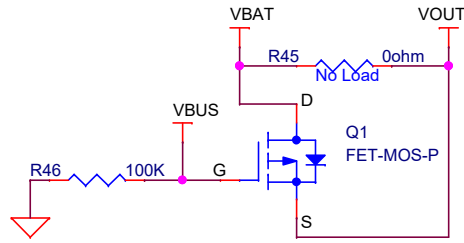




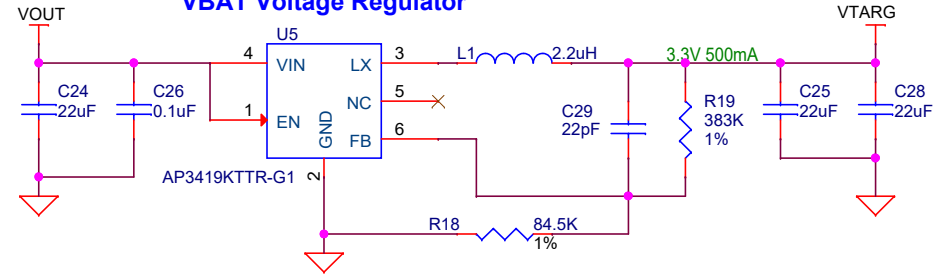
VBUS Reverse Voltage Protection



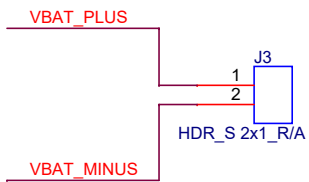
VBAT Reverse Current Protection



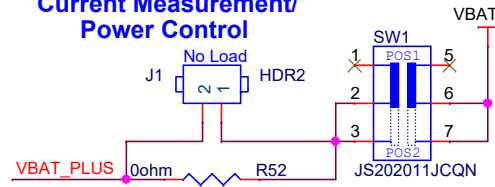
VBAT Voltage Regulator



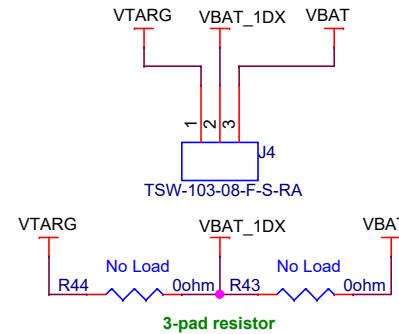
Battery Connector



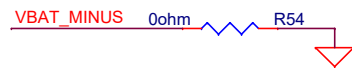
Current Measurement/Power Control



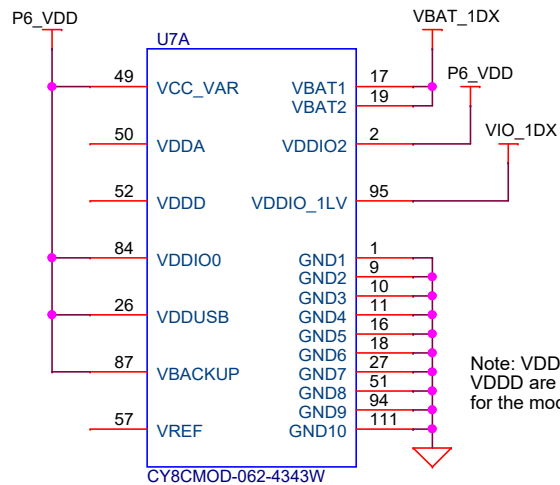
VBAT_1DX Selection Jumper



Battery Protection By-pass

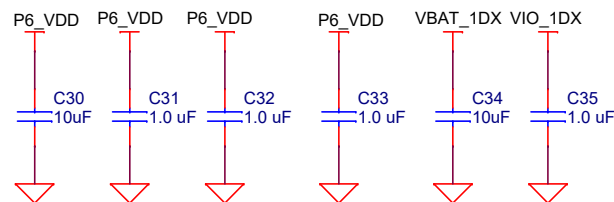


Module Power

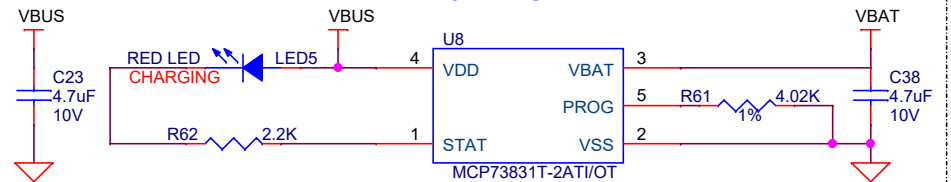


Note: VDDA and VDDD are optional for the module.

Decoupling Capacitors



Battery Charger



CYPRESS SEMICONDUCTOR
198 CHAMPION COURT
SAN JOSE, CA 95134
(408) 943-2600

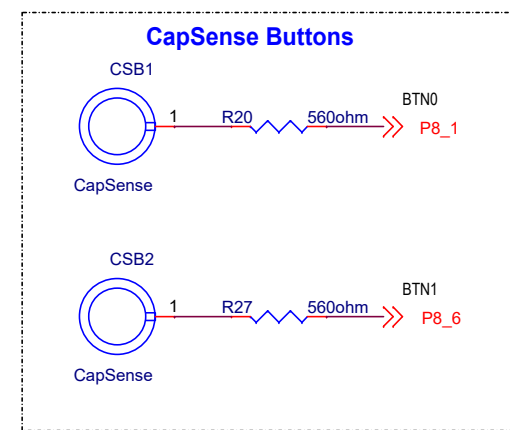
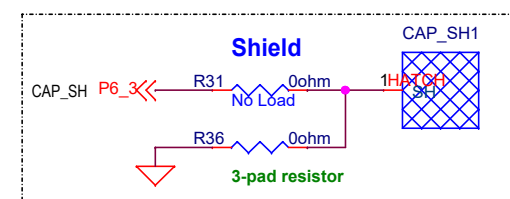
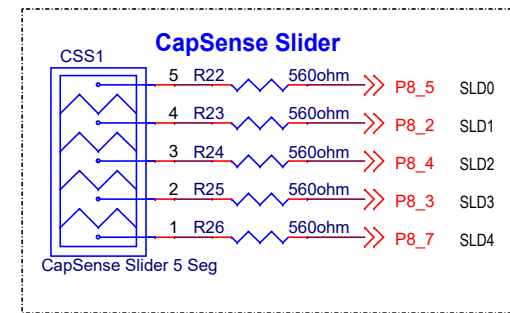
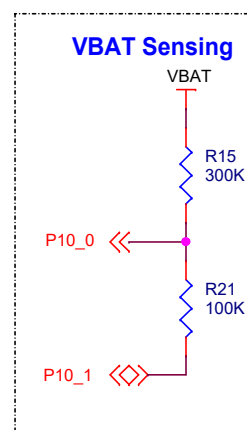
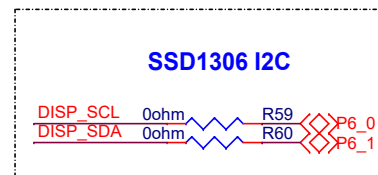
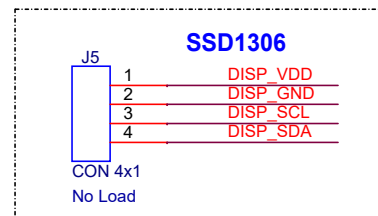
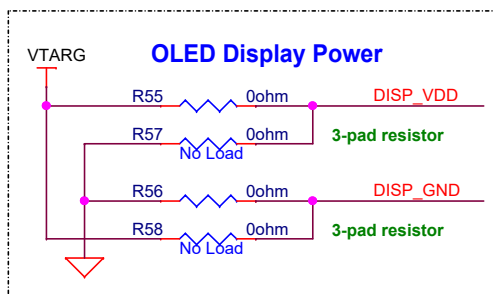
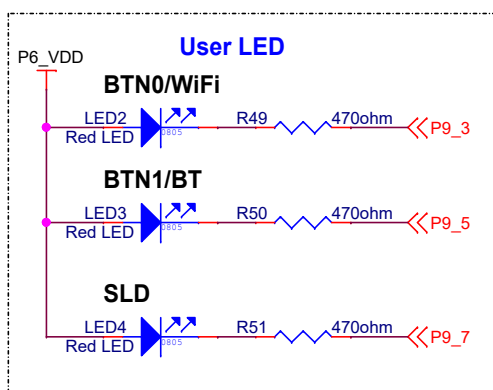
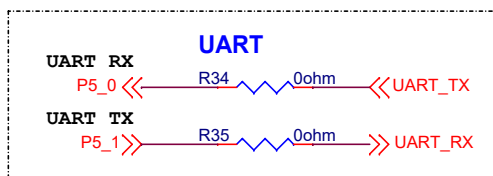
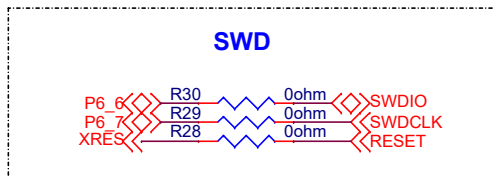
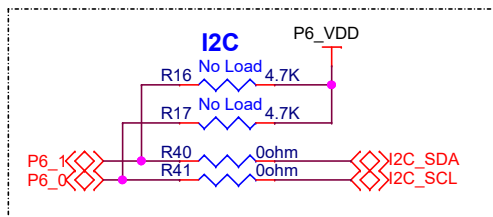
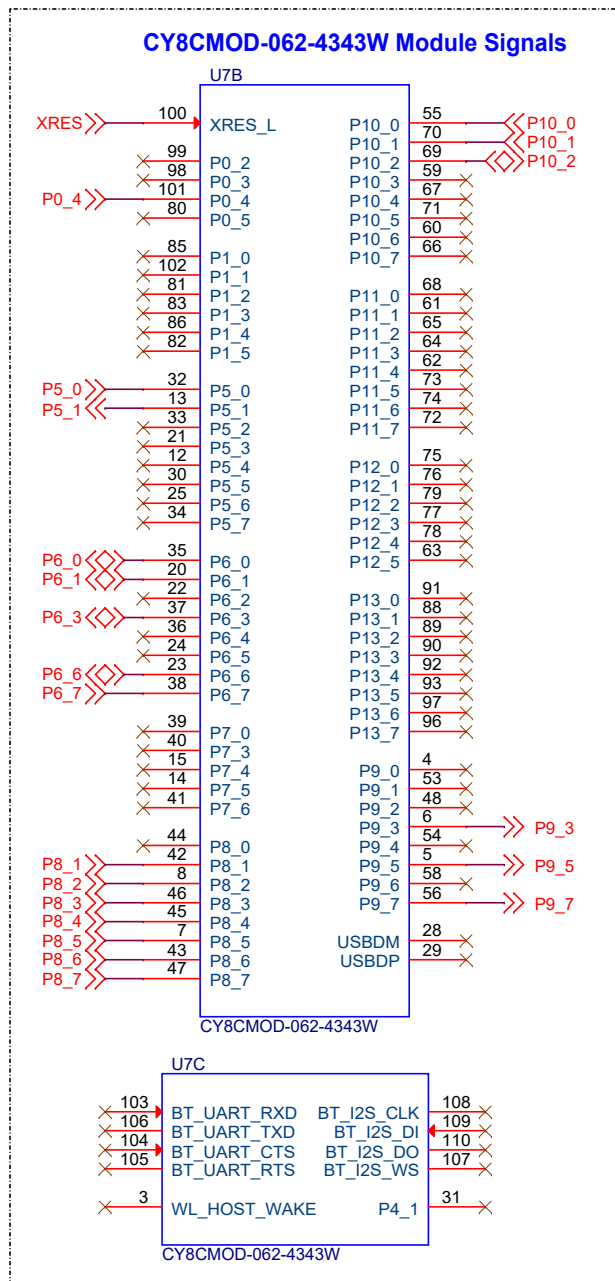
CYPRESS SEMICONDUCTOR © 2018

SCH Title : PSoC 6 WiFi-BT remote control board

Page Title : PSoC 6 Module Power

Size	Document Number	Drawn By	Approved By	Rev
A4	630-INT0061-01	TARE	RKAD	00.7

Date:	Monday, September 10, 2018	Sheet	4 of 7
-------	----------------------------	-------	--------



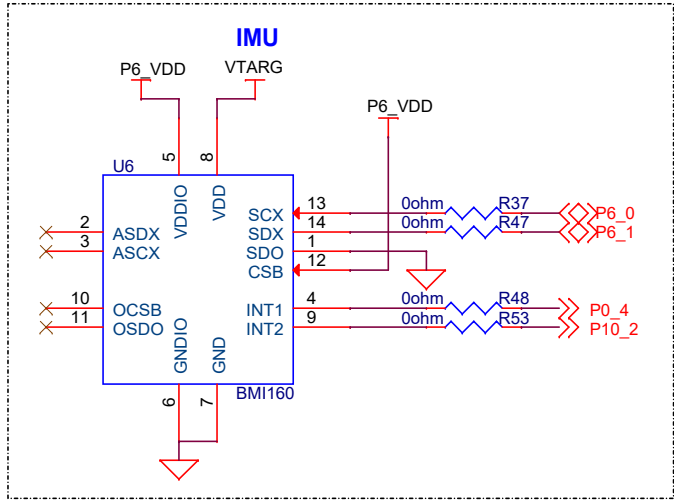
CYPRESS SEMICONDUCTOR
198 CHAMPION COURT
SAN JOSE, CA 95134
(408) 943-2600

CYPRESS SEMICONDUCTOR © 2018

SCH Title : PSoC 6 WiFi-BT remote control board

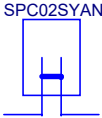
Page Title : PSoC 6 Module Signals

Size A4	Document Number 630-INT0061-01	Drawn By TARE	Approved By RKAD	Rev 00.7
Date:	Monday, September 10, 2018		Sheet	5 of 7



Accessories

Jumper Shunt



Acrylic Overlay

Acrylic Overlay

Color: Clear, Transparent
Finish: Matt

Dimensions TBD

OLED Display and Tape

SSD1306

Color: Blue

Dimensions :
27mm x 27mm x
4mm

Adhesive Tape

Dimensions :
15mm x 15mm



CYPRESS SEMICONDUCTOR
198 CHAMPION COURT
SAN JOSE, CA 95134
(408) 943-2600

CYPRESS SEMICONDUCTOR © 2018

SCH Title : PSoC 6 WiFi-BT remote control board

Page Title : IMU and Accessories

Size A4	Document Number 630-INT0061-01	Drawn By TARE	Approved By RKAD	Rev 00.7
------------	--	-------------------------	----------------------------	--------------------

Date: Monday, September 10, 2018 Sheet 6 of 7

REVISION HISTORY

REV	DESCRIPTION OF CHANGE	DATE
00.1	Initial draft	2018/08/29
00.2	Added battery charger	2018/08/30
00.3	1. Added slide switch for power 2. added IMU in page 6 3. added TPs for VBUS, VOUT and P5LP programming	2018/08/31
00.3	1. Added OLED Display to accessories 2. changed LED pins to port 9 3. changed VBAT sense GND to	2018/09/03
00.4	1. Removed Coin cell holder and protection circuit 2. Removed 2 user LEDs	2018/09/06
00.5	1. Added Adhesive tape to accessories 2. Removed Reset switch and associated RC circuit	2018/09/07
00.6	1. Changed CapSense silder to self-cap as used in CY8CKIT-042 2. changed CapSense buttons to self-cap as used in CY8CKIt-050 3. Added block diagram	2018/09/10
00.7	Changed CapSense silder and buttons to optimize routing	2018/09/10



CYPRESS
EMBEDDED IN TOMORROW™

CYPRESS SEMICONDUCTOR
198 CHAMPION COURT
SAN JOSE, CA 95134
(408) 943-2600

CYPRESS SEMICONDUCTOR © 2018

SCH Title : PSoC 6 WiFi-BT remote control board

Page Title : Revision History

Size A4	Document Number 630-INT0061-01	Drawn By TARE	Approved By RKAD	Rev 00.7
Date:	Monday, September 10, 2018		Sheet	7 of 7