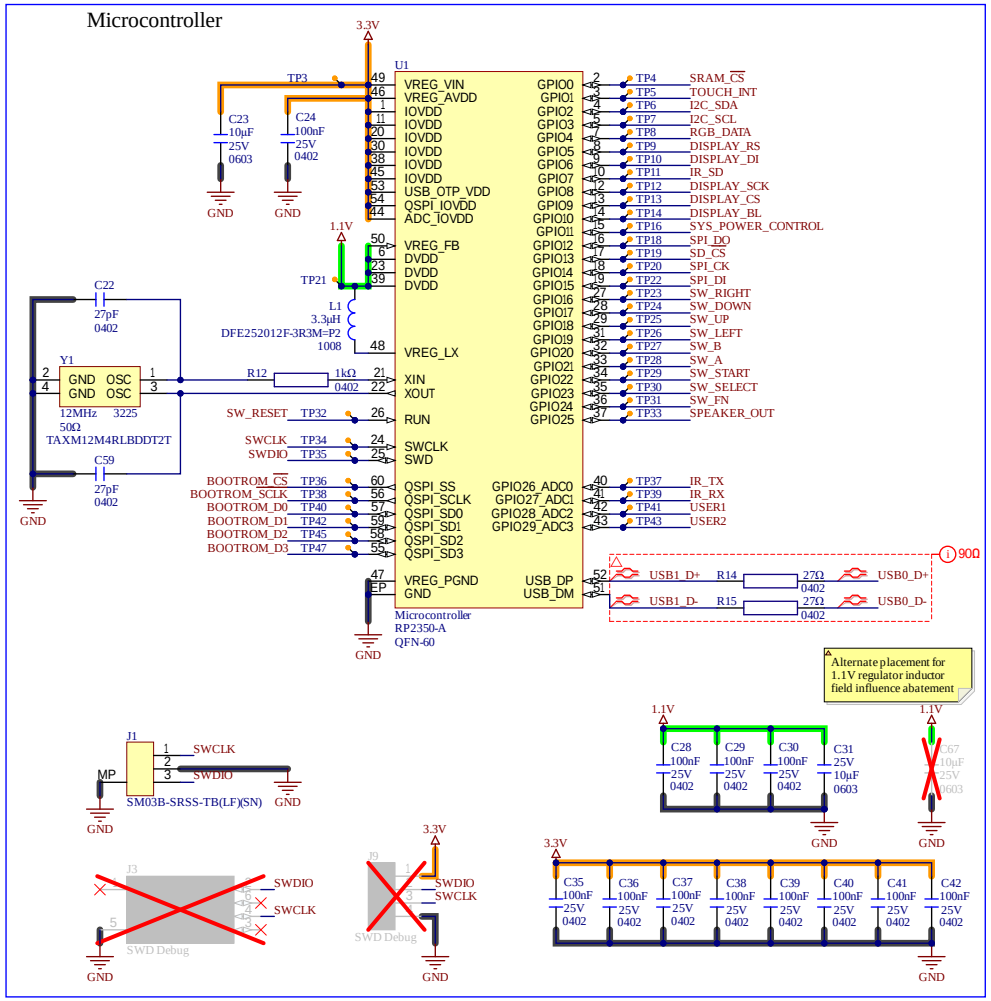
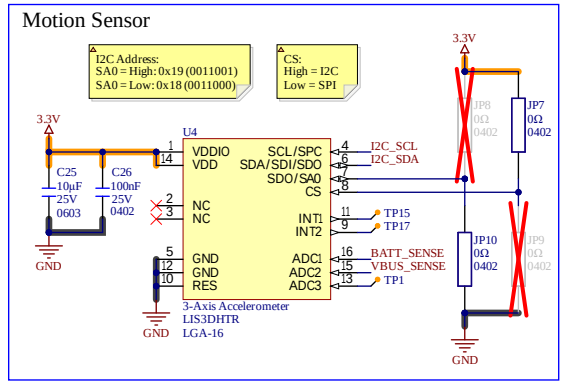
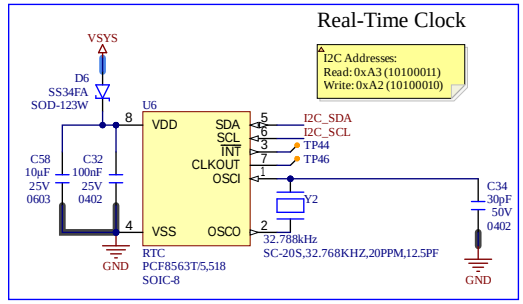
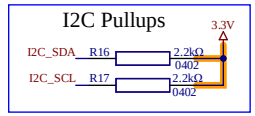
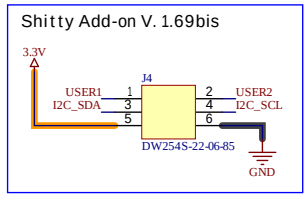
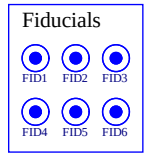


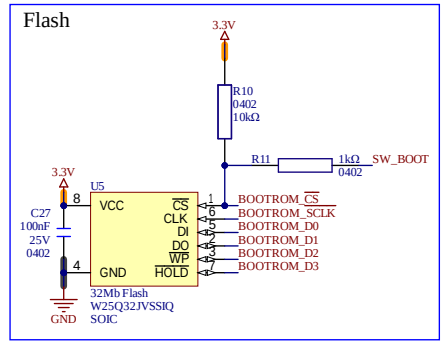


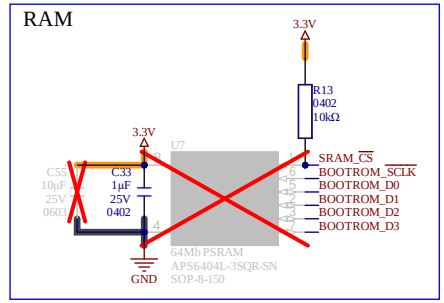


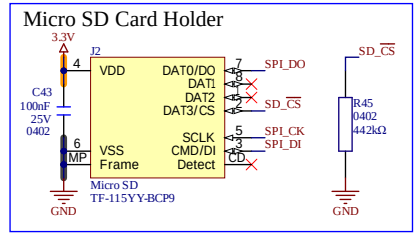










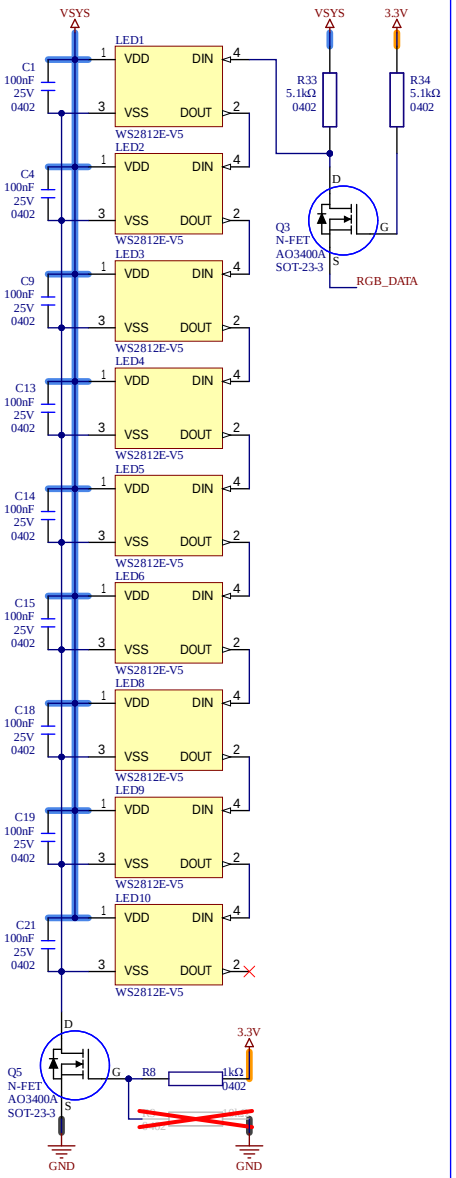


ENTROPIC ENGINEERING
670 Transfer Road
St. Paul, MN 55114
USA

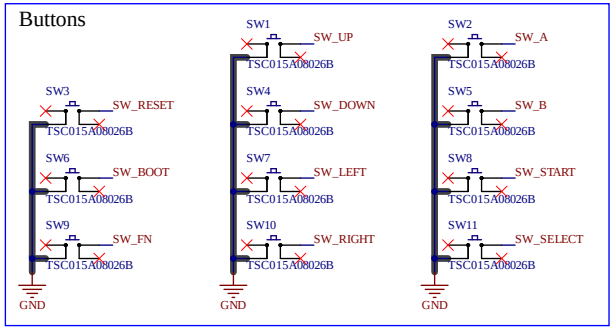
CONFIDENTIAL - NOT FOR RELEASE UNLESS AUTHORIZED

Sheet Title:	Microcontroller
Project:	Badge 32
Client:	DEF CON
Filename:	microcontroller.SchDoc
Date: 2024-05-23	Revision: 0.4.1
Sheet: 1 of 4	A3

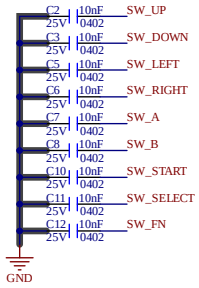
Das Blinkenlight



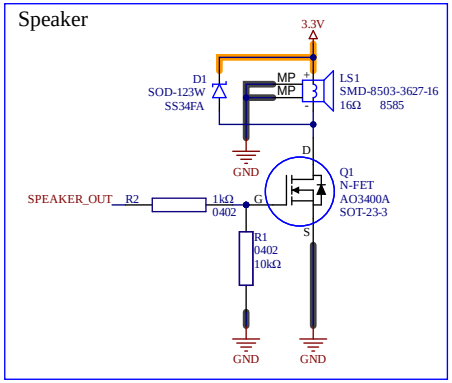
Buttons



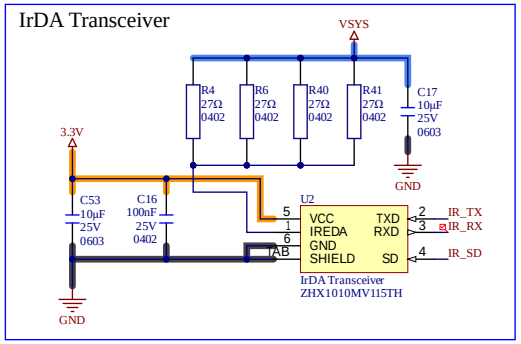
Button Debouncing



Speaker



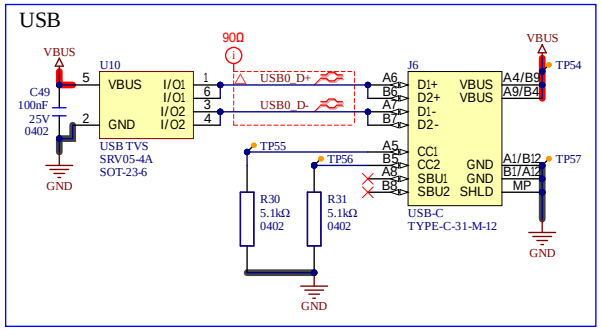
IrDA Transceiver

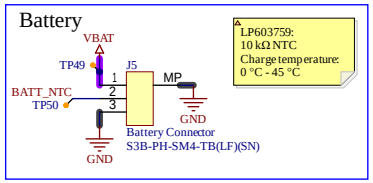


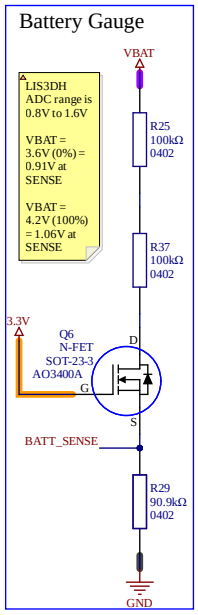
ENTROPIC ENGINEERING
670 Transfer Road
St. Paul, MN 55114
USA

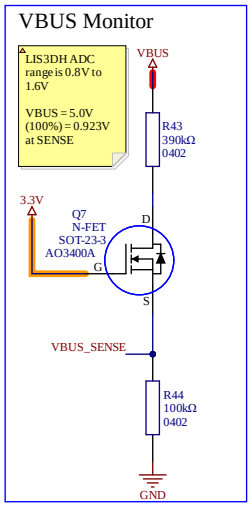
CONFIDENTIAL - NOT FOR RELEASE UNLESS AUTHORIZED

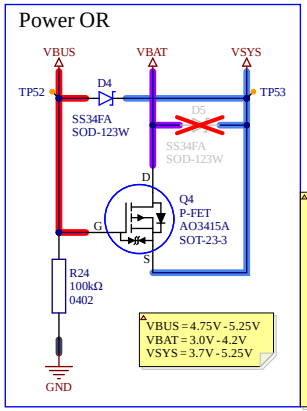
Sheet Title: User Interface			
Project: Badge			
Client: DEF CON			
Filename: user_interface.SchDoc			
Date: 2024-05-23	Revision: 0.4.1	Sheet: 2 of 4	A3

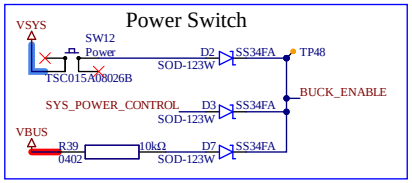


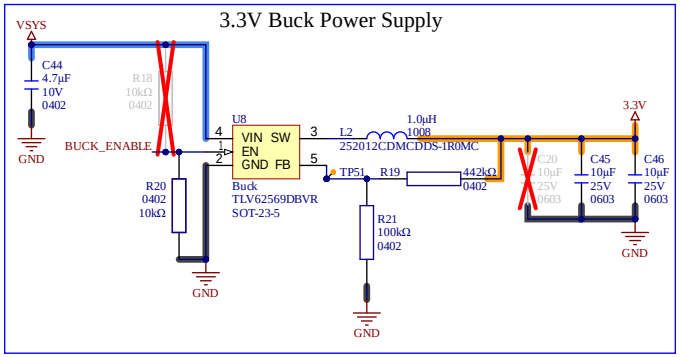


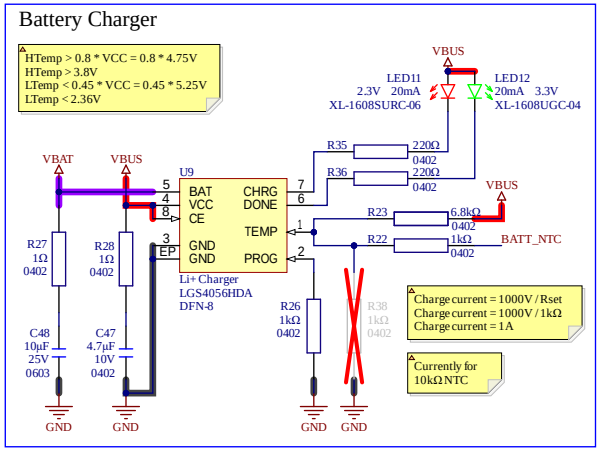


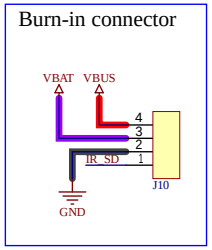










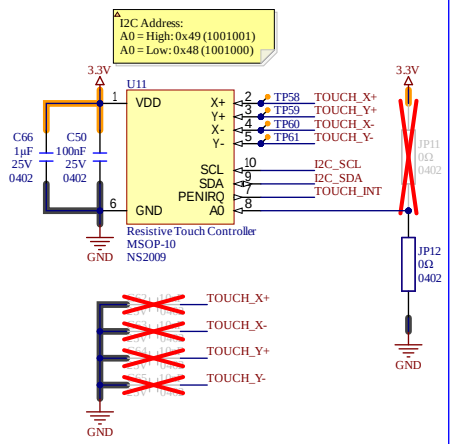


ENTROPIC ENGINEERING
670 Transfer Road
St. Paul, MN 55114
USA

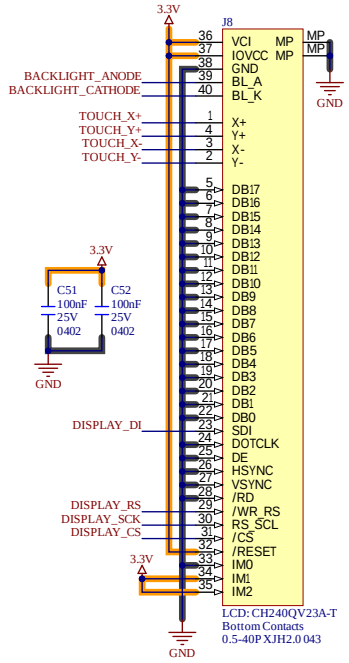
CONFIDENTIAL - NOT FOR RELEASE UNLESS AUTHORIZED

Sheet Title:	Power
Project:	Badge
Client:	DEF CON
Filename:	power.SchDoc
Date: 2024-06-04	Revision: 0.4.1
Sheet: 3 of 4	A3

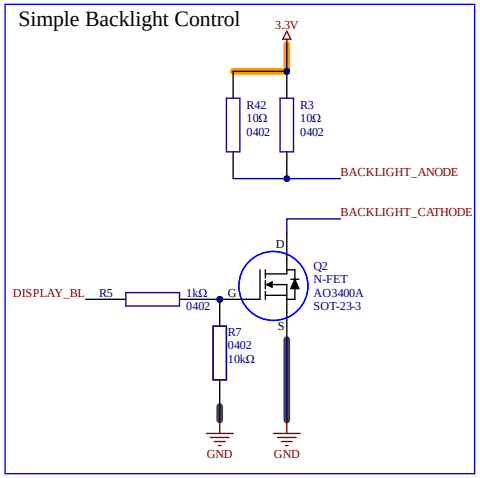
Resistive Touch Controller



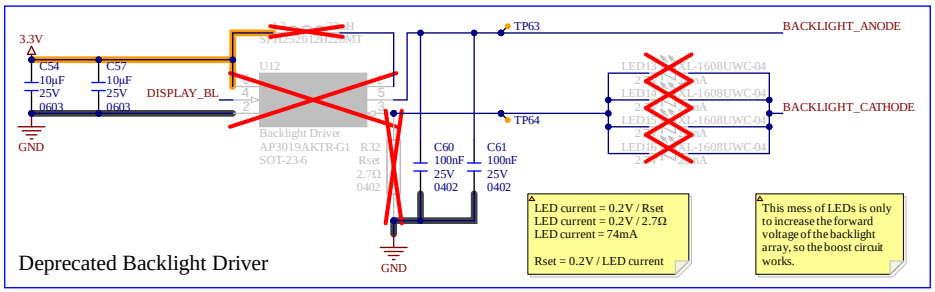
2.4" LCD (CH240QV23A)



Simple Backlight Control



Deprecated Backlight Driver



ENTROPIC ENGINEERING
670 Transfer Road
St. Paul, MN 55114
USA

CONFIDENTIAL - NOT FOR RELEASE UNLESS AUTHORIZED

Sheet Title: Display			
Project: Badge			
Client: DEF CON			
Filename: display.SchDoc			
Date: 2024-05-23	Revision: 0.4.1	Sheet: 4 of 4	A3