

KEY

LINE COLORS

- ETHERNET
- USB
- DISPLAY
- RJ45 CABLE
- DISCRETE WIRING
- AUDIO LINE
- DC POWER
- AC POWER

FPGAS AND ADMINISTRATION

VCU118_1

P2 (Baseline, FreeRTOS)

FUNCTION(S)

ECUs:

- * THROTTLE
- * BRAKES
- * LANE KEEP ASSIST
- * TRANSMISSION MANAGER

PWR GPIO

JTAG I2C

PCIE UART1

ETH

VCU118_2

P2 (Baseline, FreeRTOS)

FUNCTION(S)

ECUs:

- * THROTTLE
- * BRAKES
- * LANE KEEP ASSIST
- * TRANSMISSION MANAGER

PWR GPIO

JTAG I2C

PCIE UART1

ETH

VCU118_3

P2 (Cheri, CheriFreeRTOS)

FUNCTION(S)

ECUs:

- * THROTTLE
- * BRAKES
- * LANE KEEP ASSIST
- * TRANSMISSION MANAGER

PWR GPIO

JTAG I2C

PCIE UART1

ETH

VCU118_4

P2 (Baseline, Linux)

FUNCTION(S)

INFOTAINMENT:

- * OTA UPDATER
- * THIN CLIENT SERVER

PWR GPIO

JTAG I2C

PCIE UART1

ETH

VCU118_5

P2 (LMCO/HARD, Linux)

FUNCTION(S)

INFOTAINMENT:

- * OTA UPDATER
- * THIN CLIENT SERVER

PWR GPIO

JTAG I2C

PCIE UART1

ETH

VCU118_6

P2 (Baseline, Linux)

FUNCTION(S)

INFOTAINMENT:

- * OTA UPDATER
- * THIN CLIENT SERVER

PWR GPIO

JTAG I2C

PCIE UART1

ETH

PC2

ADMIN

SPECIFICATIONS

CPU?

O/S?

RAM?

Integrated Graphics

PROCESS(ES)

AC_PWR HDMI

DP

USB1

USB2

USB3

AUDIO

ETH

ETHERNET_SWITCH

ETH1

ETH2

ETH3

ETH4

ETH5

ETH6

ETH7

ETH8

ETH9

ETH10

ETH11

ETH12

ETH13

ETH14

ETH15

ETH16

ETHERNET_ADMIN_PC

ETHERNET_ADMIN_PC

ETHERNET_HACKER_KIOSK_RASPBERRY_PI/2.3C

ETHERNET_SIMULATOR_PC/3.1E

ETHERNET_INFOTAINMENT_RASPBERRY_PI/3.1F

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DOC TITLE CYBERPHYS DEMONSTRATOR ARCHITECTURE – PHYSICAL DOC NUMBER N/A DOC REVISION C

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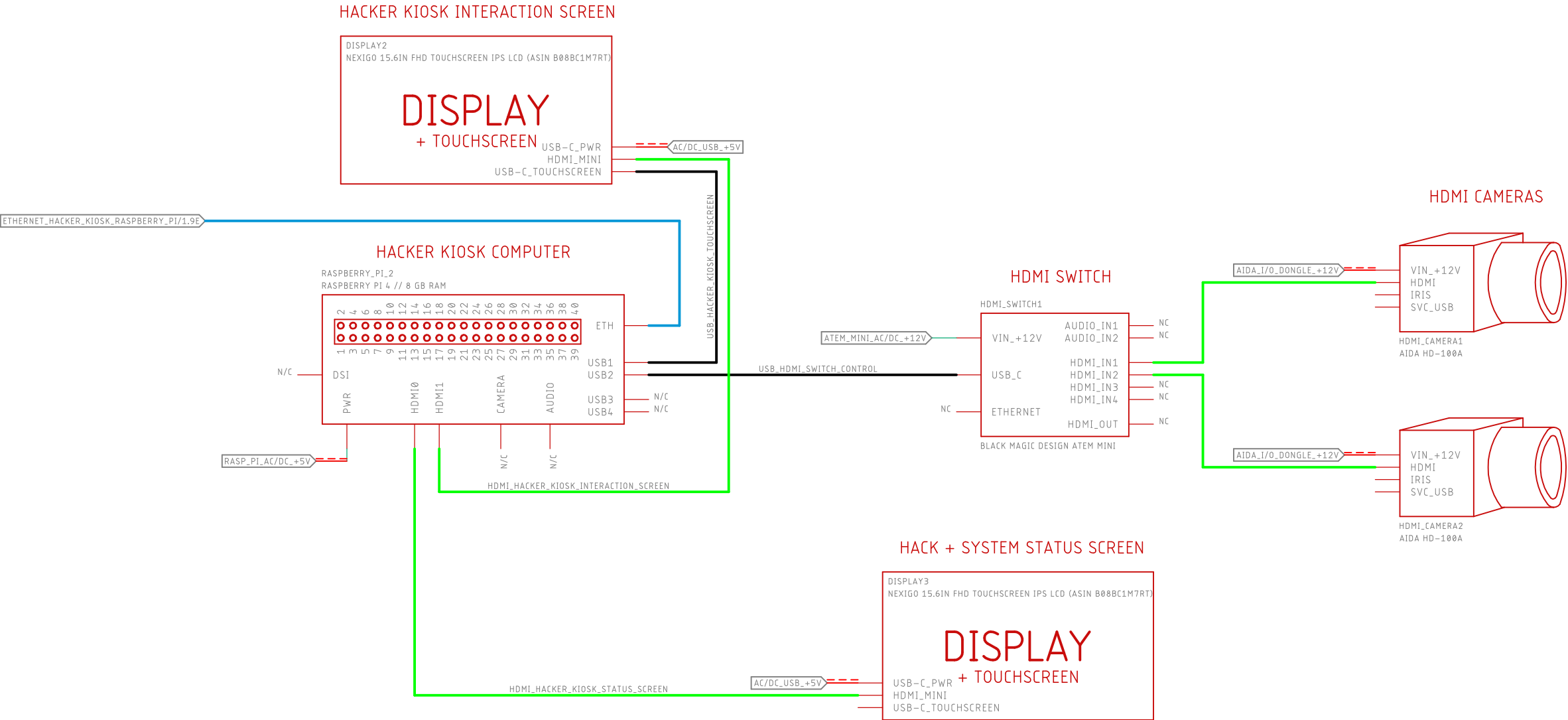
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HACKER KIOSK AND CAN BUS STATUS DISPLAY EQUIPMENT

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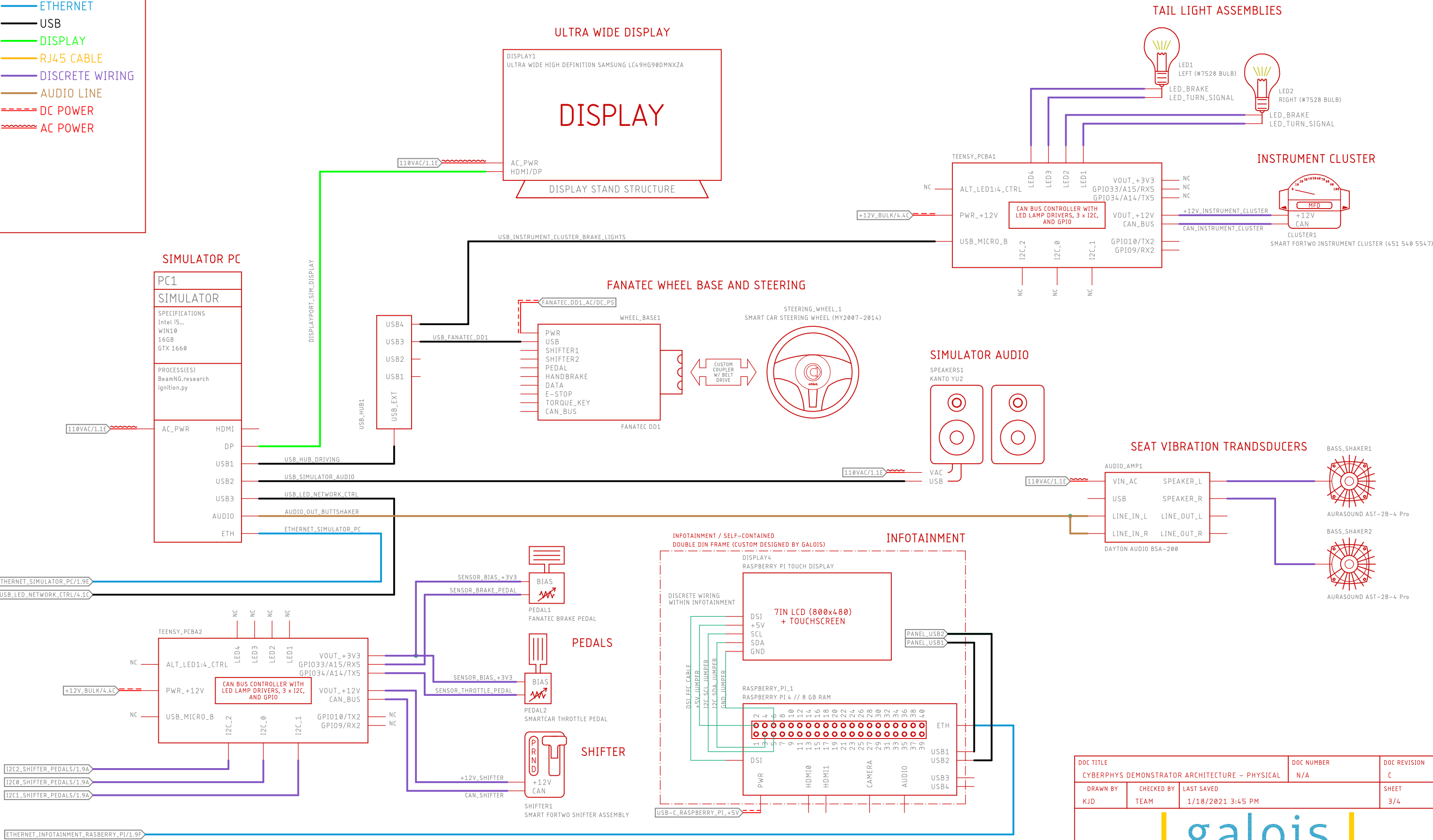
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AUTOMOTIVE SIMULATOR COMPONENTS

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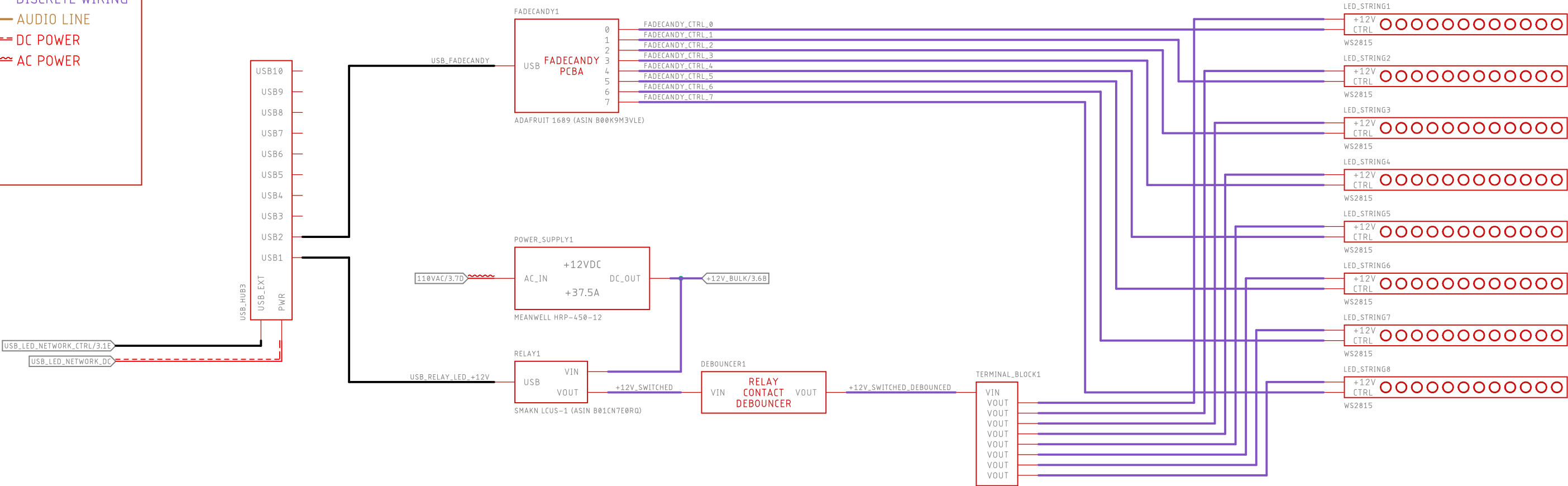
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EXAMPLE LED STRING BANK CONTROL AND POWER SETUP

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LED STRING SET UP NOTES

* MAXIMUM LED STRING LENGTH IS 63. THIS IS A FADECANDY LIMITATION.

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