

KEY

LINE COLORS

- ETHERNET
- USB
- DISPLAY
- RJ12 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

VCU118_2
P2 (Baseline, FreeRTOS)
FUNCTION(S)
ECUs:
* THROTTLE
* BRAKES
* LANE KEEP ASSIST
* TRANSMISSION MANAGER

VCU118_3
P2 (Cheri, CheriFreeRTOS)
FUNCTION(S)
ECUs:
* THROTTLE
* BRAKES
* LANE KEEP ASSIST
* TRANSMISSION MANAGER

VCU118_4
P2 (Baseline, Linux)
FUNCTION(S)
INFOTAINMENT:
* OTA UPDATER
* THIN CLIENT SERVER

VCU118_5
P2 (LMC0/HARD, Linux)
FUNCTION(S)
INFOTAINMENT:
* OTA UPDATER
* THIN CLIENT SERVER

VCU118_6
P2 (Baseline, Linux)
FUNCTION(S)
INFOTAINMENT:
* OTA UPDATER
* THIN CLIENT SERVER

PC2 ADMIN
SPECIFICATIONS
CPU?
O/S?
RAM?
Integrated Graphics

PROCESS(ES)

AC_PWR
HDMI
DP
USB1
USB2
USB3
AUDIO
ETH

110VAC/3.1D

USB_HUB2
PWR
USB_EXT
USB1
USB2
USB3
USB4
USB5
USB6
USB7
USB8
USB9
USB10
USB11
USB12
USB13
USB14

ETHERNET_ADMIN_PC

ETHERNET_HACKER_KIOSK_RASPBERRY_PI/2.3C
ETHERNET_SIMULATOR_PC/3.1E
ETHERNET_INFOTAINMENT_RASPBERRY_PI/3.1F

ETHERNET_SWITCH1
TP-LINK TL-SG116

DRAWING CREATED USING EAGLE PREMIUM VERSION 9.6.2

DOC TITLE
CYBERPHYS DEMONSTRATOR ARCHITECTURE - PHYSICAL

DOC NUMBER
N/A

DOC REVISION
C

DRAWN BY
KJD

CHECKED BY
TEAM

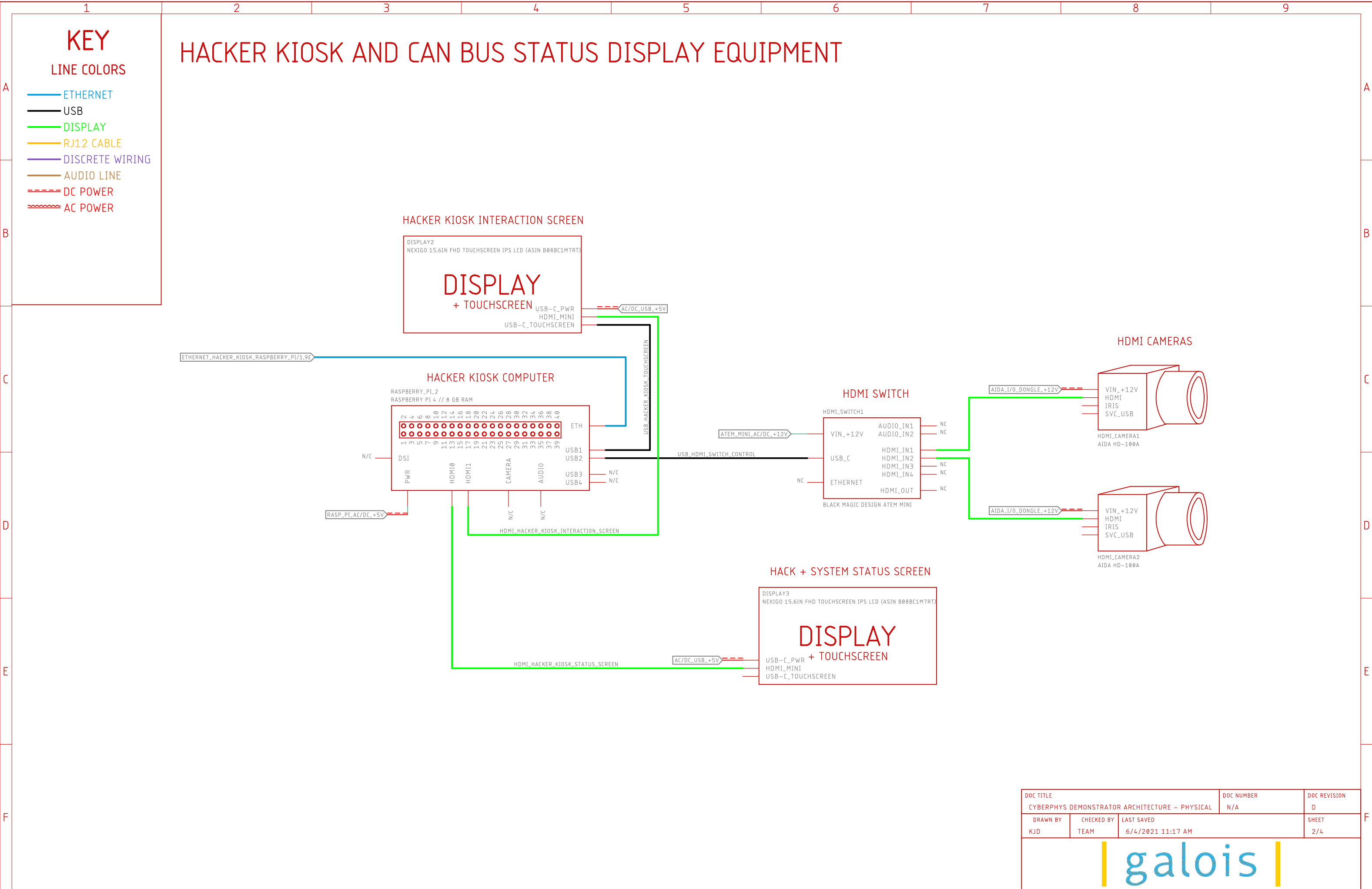
LAST SAVED
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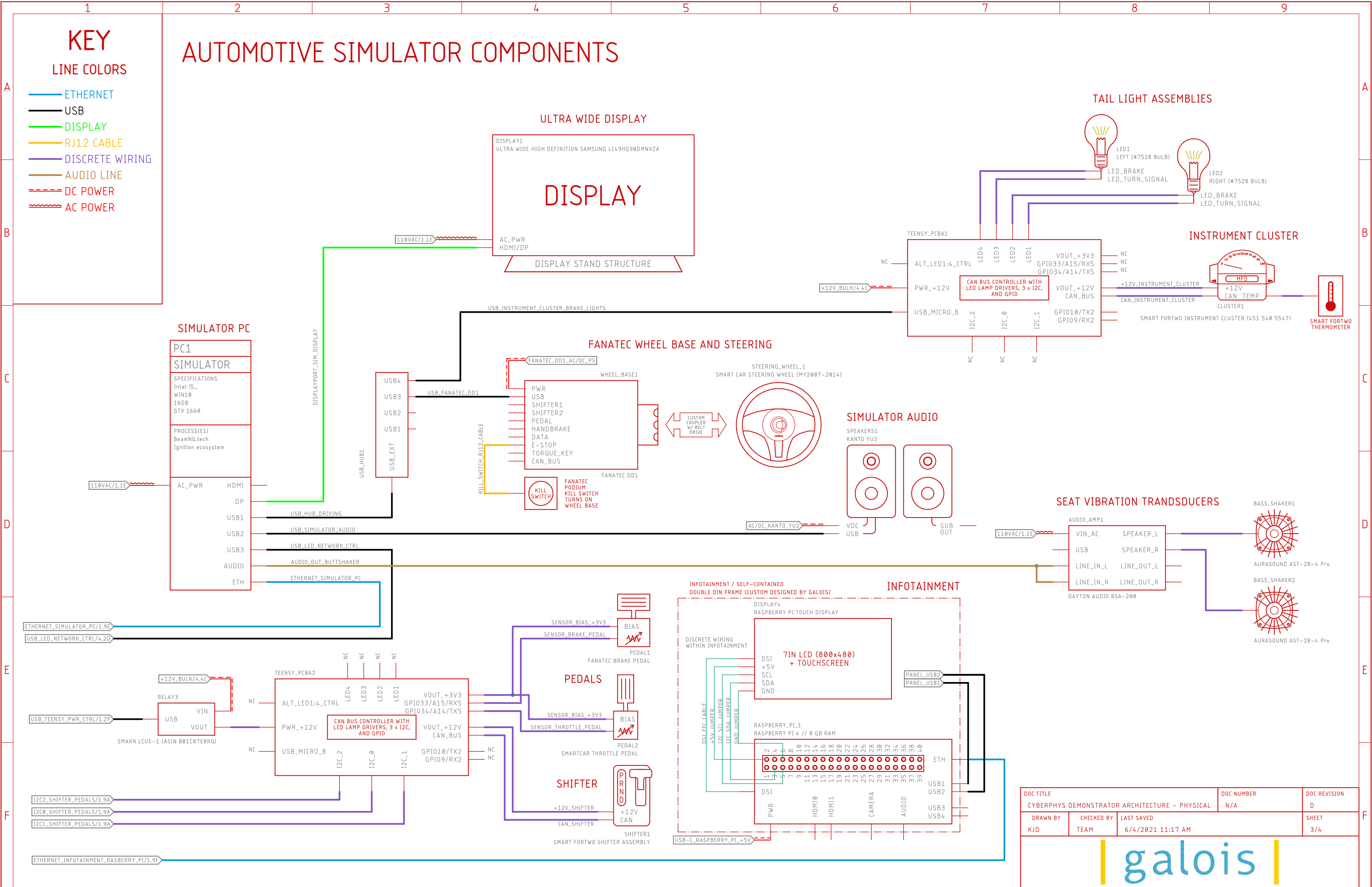
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| DOC TITLE | | | DOC NUMBER | DOC REVISION |
| CYBERPHYS DEMONSTRATOR ARCHITECTURE – PHYSICAL | | | N/A | C |
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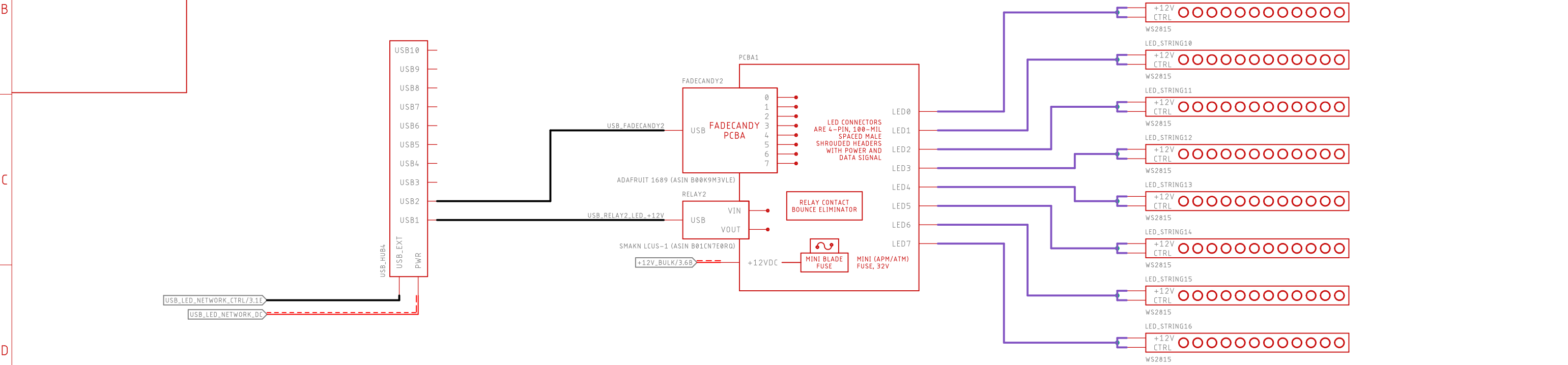


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A

EXAMPLE LED STRING BANK
CONTROL AND POWER SETUP WITH LED MANAGER PCBA

B



D

LED STRING SET UP NOTES

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