ECOS3 CPU-Board 1.1 2026

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10. Connector

Catalog Processors

Texas Instruments, Inc.
Catalog Processors Business Unit
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Dallas, TX 75243

TEXAS INSTRUMENTS

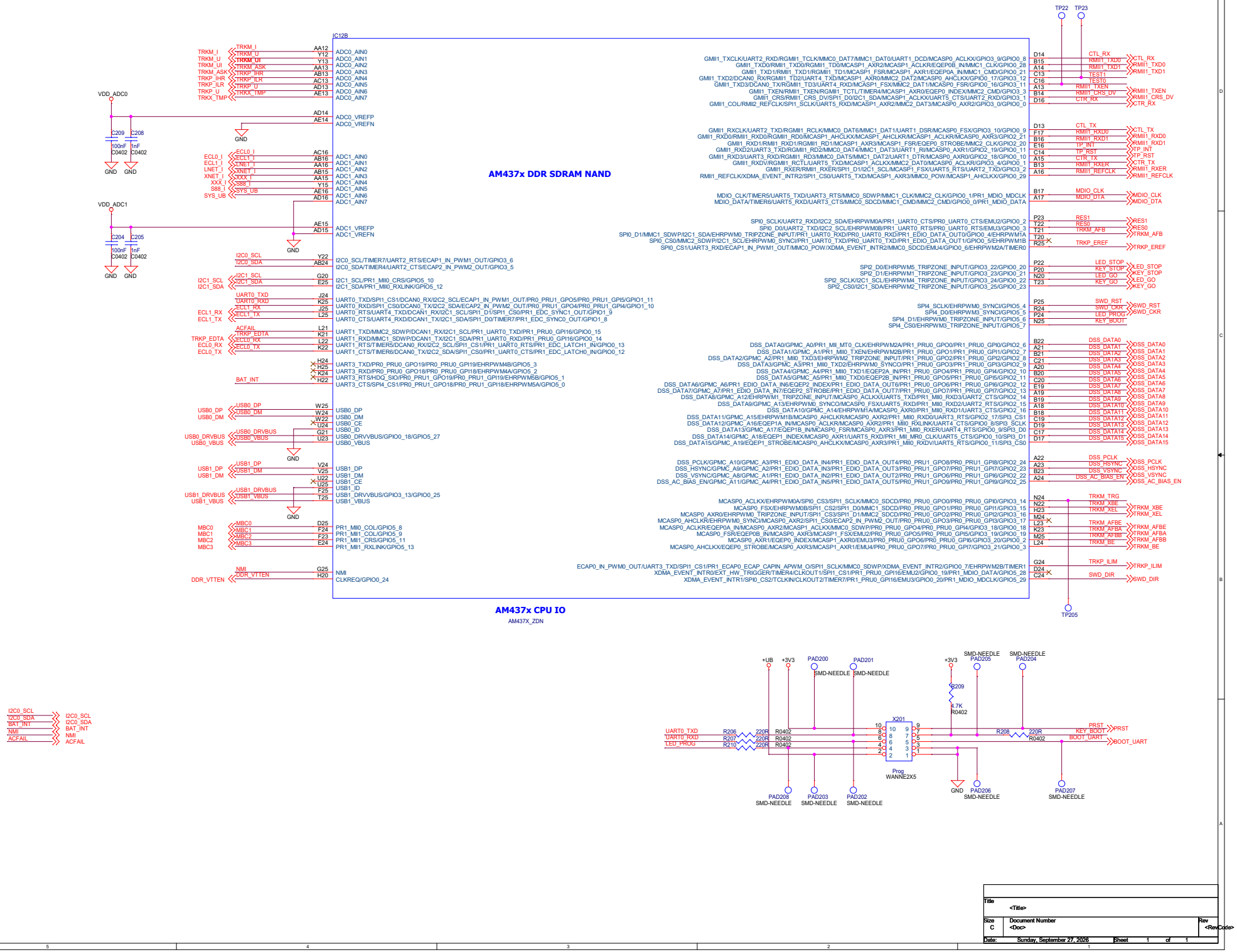
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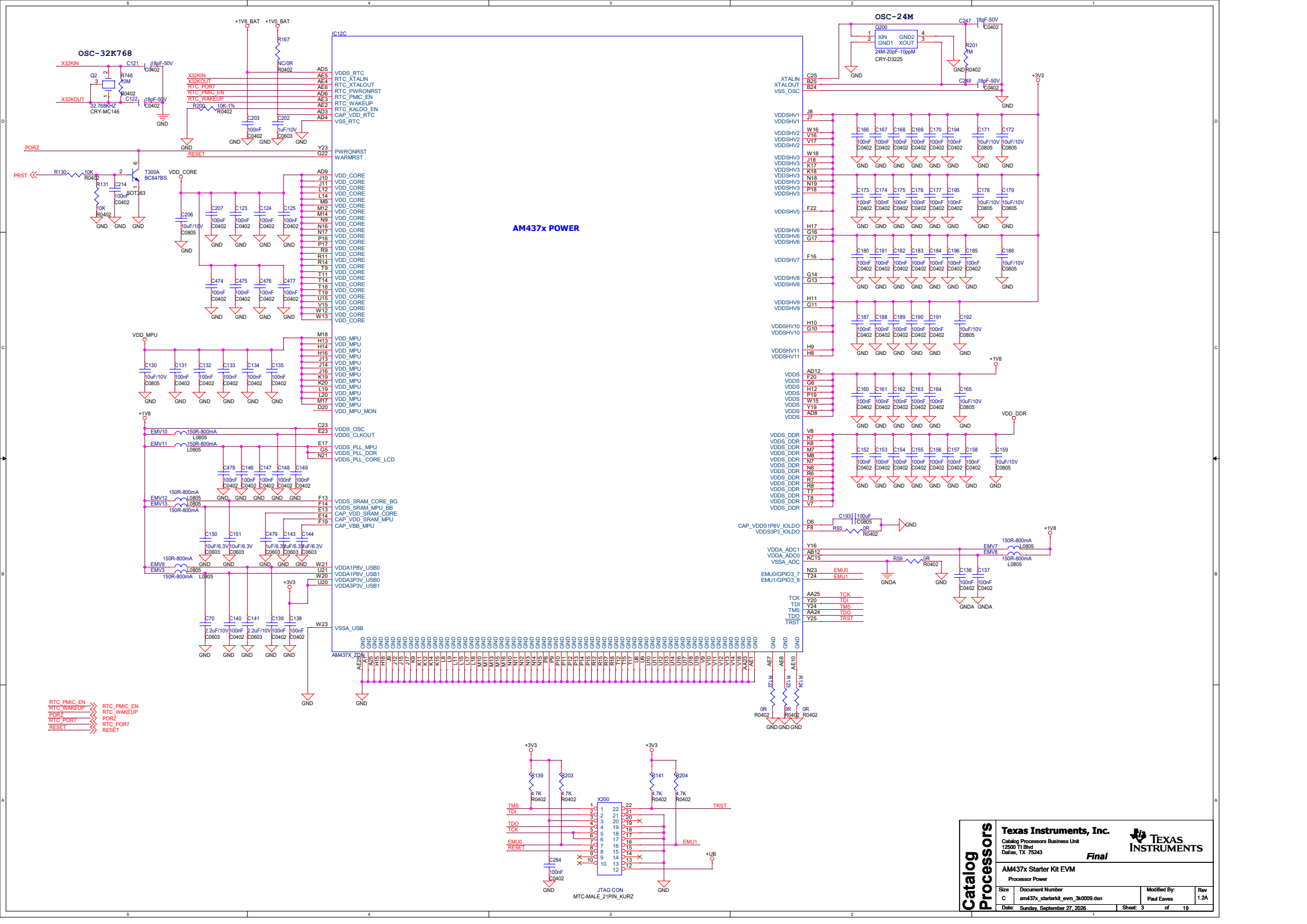
AM437x Starter Kit EVM

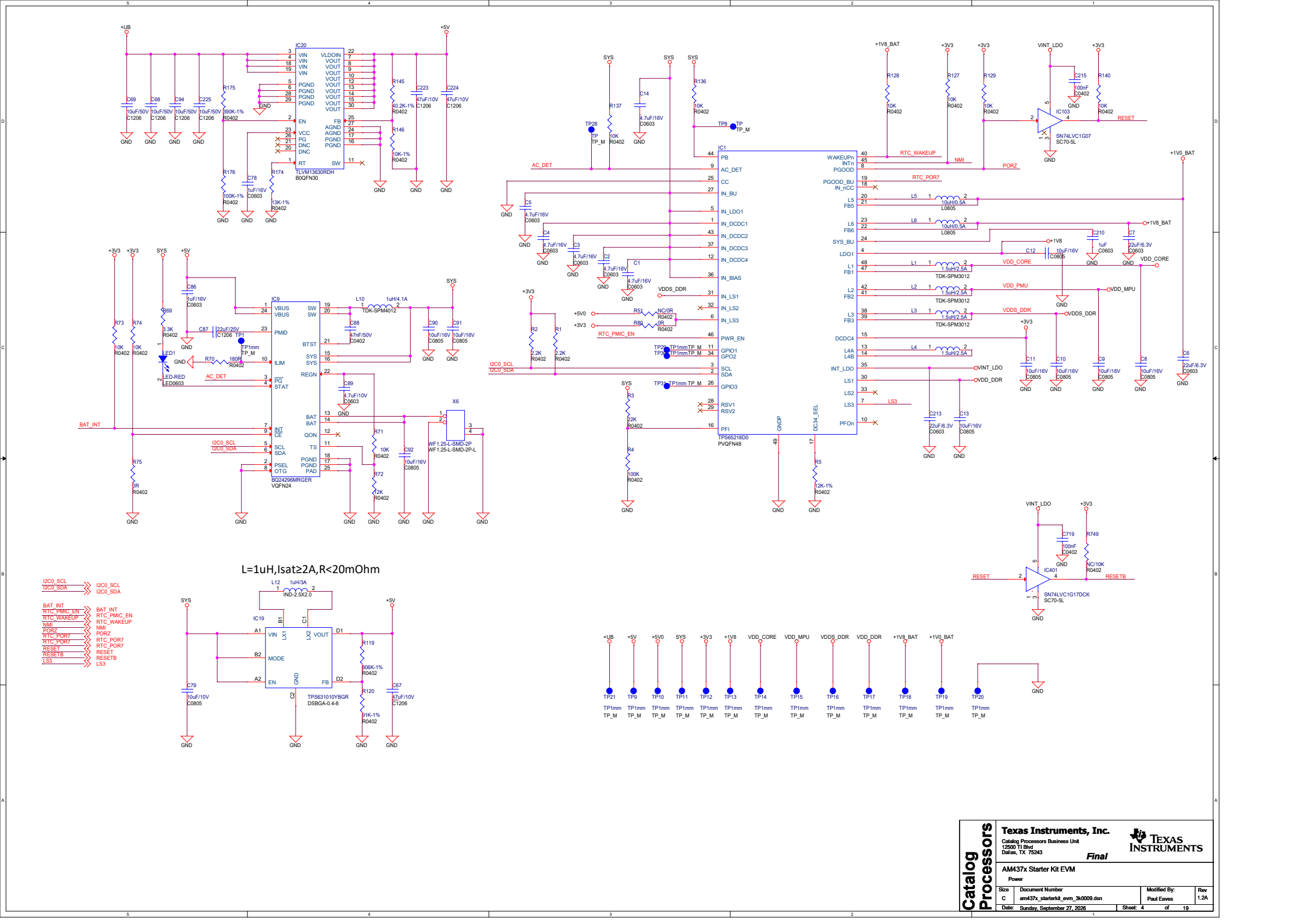
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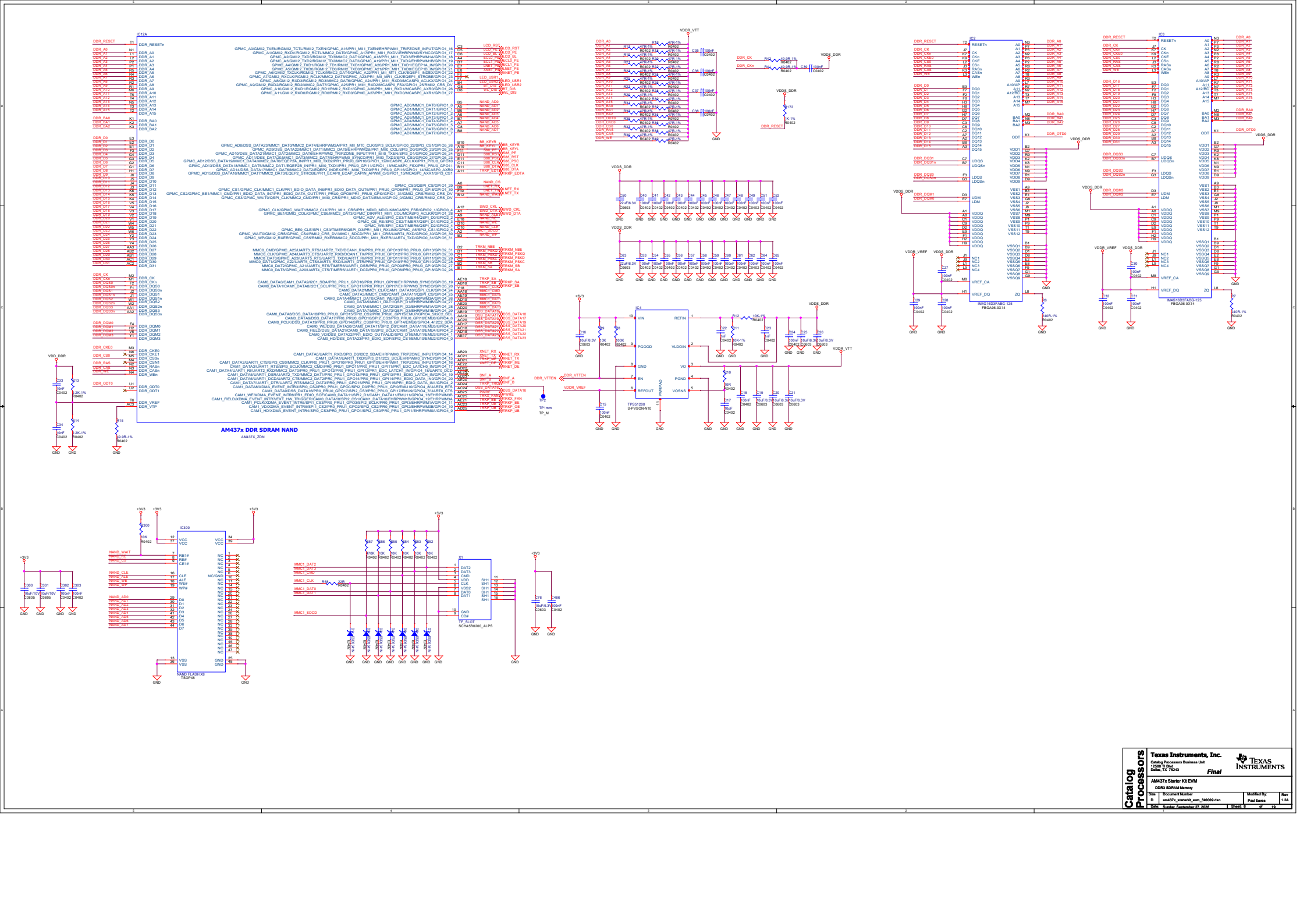
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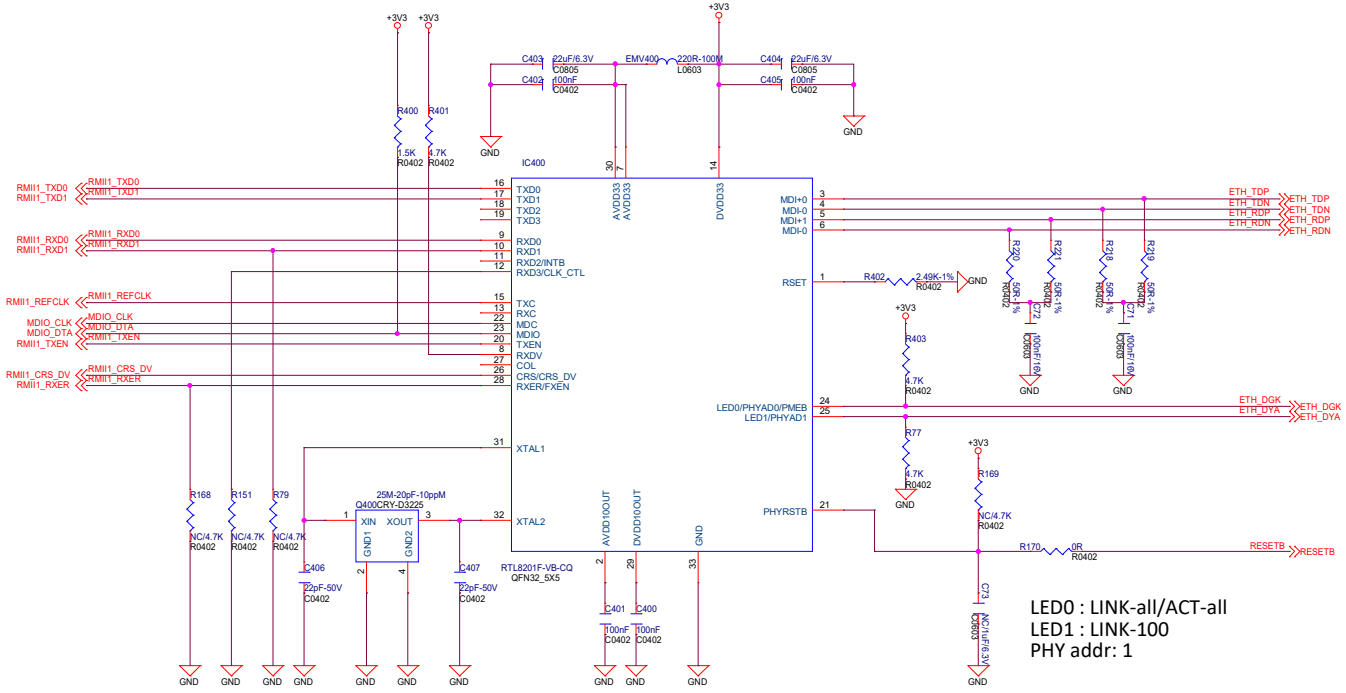
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AM437x DDR SDRAM NAND
AM437x CPU IO
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VDD_ADC1
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C208 1nF C0402
C204 100nF C0402
C205 1nF C0402
GND
TRKM_I
TRKM_U
TRKM_UI
TRKM_ASK
TRKP_IHR
TRKP_ILR
TRKP_U
TRKX_TMP
ECL0_I
ECL1_I
LNET_I
XNET_I
XXX_I
S88_I
SYS_UB
I2C0_SCL
I2C0_SDA
I2C1_SCL
I2C1_SDA
UART0_TXD
UART0_RXD
ECL1_RX
ECL1_TX
ACFAIL
TRKP_EDTA
ECL0_RX
ECL0_TX
BAT_INT
USB0_DP
USB0_DM
USB0_CE
USB0_ID
USB0_DRVBUS
USB0_VBUS
USB1_DP
USB1_DM
USB1_CE
USB1_ID
USB1_DRVBUS
USB1_VBUS
MBC0
MBC1
MBC2
MBC3
NMI
DDR_VTTEN
ADC0_AIN0
ADC0_AIN1
ADC0_AIN2
ADC0_AIN3
ADC0_AIN4
ADC0_AIN5
ADC0_AIN6
ADC0_AIN7
ADC0_VREFP
ADC0_VREFN
ADC1_AIN0
ADC1_AIN1
ADC1_AIN2
ADC1_AIN3
ADC1_AIN4
ADC1_AIN5
ADC1_AIN6
ADC1_AIN7
ADC1_VREFP
ADC1_VREFN
I2C0_SCL/TIMER7/UART2_RTS/ECAP1_IN_PWM1_OUT/GPIO3_6
I2C0_SDA/TIMER4/UART2_CTS/ECAP2_IN_PWM2_OUT/GPIO3_5
I2C1_SCL/PR1_MII0_CRS/GPIO5_10
I2C1_SDA/PR1_MII0_RXLINK/GPIO5_12
UART0_TXD/SPI1_CS1/DCAN0_RX/I2C2_SCL/ECAP1_IN_PWM1_OUT/PR0_PRU1_GPO5/PR0_PRU1_GPI5/GPIO1_11
UART0_RXD/SPI1_CS0/DCAN0_TX/I2C2_SDA/ECAP2_IN_PWM2_OUT/PR0_PRU1_GPO4/PR0_PRU1_GPI4/GPIO1_10
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UART1_CTS/TIMER6/DCAN0_TX/I2C2_SDA/SPI1_CS0/PR1_UART0_CTS/PR1_EDC_LATCH0_IN/GPIO0_12
UART3_TXD/PR0_PRU0_GPO19/PR0_PRU0_GPI19/EHRPWMAB/GPIO5_3
UART3_RXD/PR0_PRU0_GPO18/PR0_PRU0_GPI18/EHRPWMA/GPIO5_2
UART3_RTS/HDQ_SIO/PR0_PRU1_GPO19/PR0_PRU1_GPI19/EHRPWMB/GPIO5_1
UART3_CTS/SPI4_CS1/PR0_PRU1_GPO18/PR0_PRU1_GPI18/EHRPWMA/GPIO5_0
USB0_DP
USB0_DM
USB0_CE
USB0_ID
USB0_DRVVBUS/GPIO0_18/GPIO5_27
USB0_VBUS
USB1_DP
USB1_DM
USB1_CE
USB1_ID
USB1_DRVVBUS/GPIO3_13/GPIO0_25
USB1_VBUS
PR1_MII0_COL/GPIO5_8
PR1_MII1_COL/GPIO5_9
PR1_MII1_CRS/GPIO5_11
PR1_MII1_RXLINK/GPIO5_13
NMI
CLKREQ/GPIO0_24
GMII1_TXCLK/UART2_RXD/RGMII1_TCLK/MMC0_DAT7/MMC1_DAT0/UART1_DCD/MCASP0_ACLKX/GPIO3_9/GPIO0_8
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GMII1_TXD1/RMII1_TXD1/RGMII1_TD1/MCASP1_FSR/MCASP1_AXR1/EQEP0A_IN/MMC1_CMD/GPIO0_21
GMII1_TXD2/DCAN0_RX/RGMII1_TD2/UART4_TXD/MCASP1_AXR0/MMC2_DAT2/MCASP0_AHCLKX/GPIO0_17/GPIO3_12
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MDIO_DATA/TIMER6/UART5_RXD/UART3_CTS/MMC0_SDCD/MMC1_CMD/MMC2_CMD/GPIO0_0/PR1_MDIO_DATA
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SPI0_D0/UART2_TXD/I2C2_SCL/EHRPWMOB/PR1_UART0_RTS/PR0_UART0_RTS/EMU3/GPIO0_3
SPI0_D1/MMC1_SDWP/I2C1_SDA/EHRPWM0_TRIPZONE_INPUT/PR1_UART0_RXD/PR0_UART0_RXD/PR1_EDIO_DATA_OUT0/GPIO0_4/EHRPWM1A
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SPI0_CS1/UART3_RXD/ECAP1_IN_PWM1_OUT/MMC0_POW/XDMA_EVENT_INTR2/MMC0_SDCD/EMU4/GPIO0_6/EHRPWM2A/TIMER0
SPI2_D0/EHRPWM5_TRIPZONE_INPUT/GPIO3_22/GPIO0_20
SPI2_D1/EHRPWM1_TRIPZONE_INPUT/GPIO3_23/GPIO0_21
SPI2_SCLK/I2C1_SCL/EHRPWM4_TRIPZONE_INPUT/GPIO3_24/GPIO0_22
SPI2_CS0/I2C1_SDA/EHRPWM2_TRIPZONE_INPUT/GPIO3_25/GPIO0_23
SPI4_SCLK/EHRPWM0_SYNCI/GPIO5_4
SPI4_D0/EHRPWM0_SYNCO/GPIO5_5
SPI4_D1/EHRPWM0_TRIPZONE_INPUT/GPIO5_6
SPI4_CS0/EHRPWM3_TRIPZONE_INPUT/GPIO5_7
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DSS_DATA10/GPMC_A14/EHRPWM1A/MCASP0_AXR0/PR1_MII0_RXD1/UART3_CTS/GPIO2_16
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TP23
TP205
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TEST0
RMII1_TXEN
RMII1_CRS_DV
CTR_RX
CTL_TX
RMII1_RXD0
RMII1_RXD1
TP_INT
TP_RST
CTR_TX
RMII1_RXER
RMII1_REFCLK
MDIO_CLK
MDIO_DTA
RES1
RES0
TRKM_AFB
TRKP_EREF
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KEY_STOP
LED_GO
KEY_GO
SWD_RST
SWD_CKR
LED_PROG
KEY_BOOT
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DSS_DATA1
DSS_DATA2
DSS_DATA3
DSS_DATA4
DSS_DATA5
DSS_DATA6
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DSS_VSYNC
DSS_AC_BIAS_EN
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TRKM_XBE
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TRKM_AFBA
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SWD_DIR
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+3V3
PAD200
PAD201
SMD-NEEDLE
PAD208
PAD203
PAD202
PAD205
PAD204
PAD206
PAD207
R209 4.7K R0402
R206 220R R0402
R207 220R R0402
R210 220R R0402
R208 220R R0402
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UART0_RXD
LED_PROG
PRST
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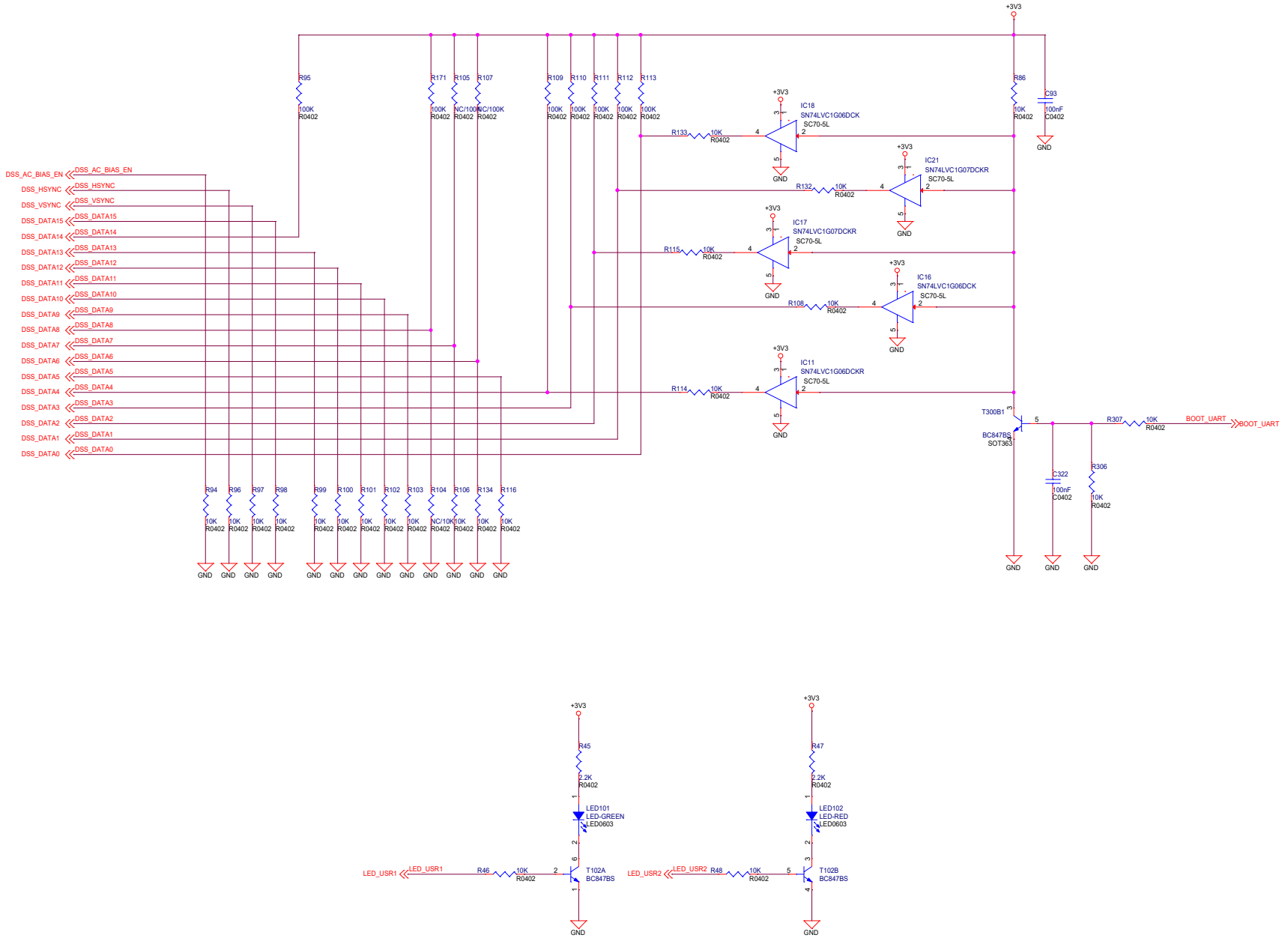

AM437x POWER
OSC-32K768
OSC-24M
JTAG CON
MTC-MALE_21PIN_KURZ
Catalog Processors
Texas Instruments, Inc.
Catalog Processors Business Unit
12500 TI Blvd
Dallas, TX 75243
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AM437x Starter Kit EVM
Processor Power
Size C
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AM437x DDR SDRAM NAND
AM437X_ZDN
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Catalog Processors Business Unit
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Catalog Processors

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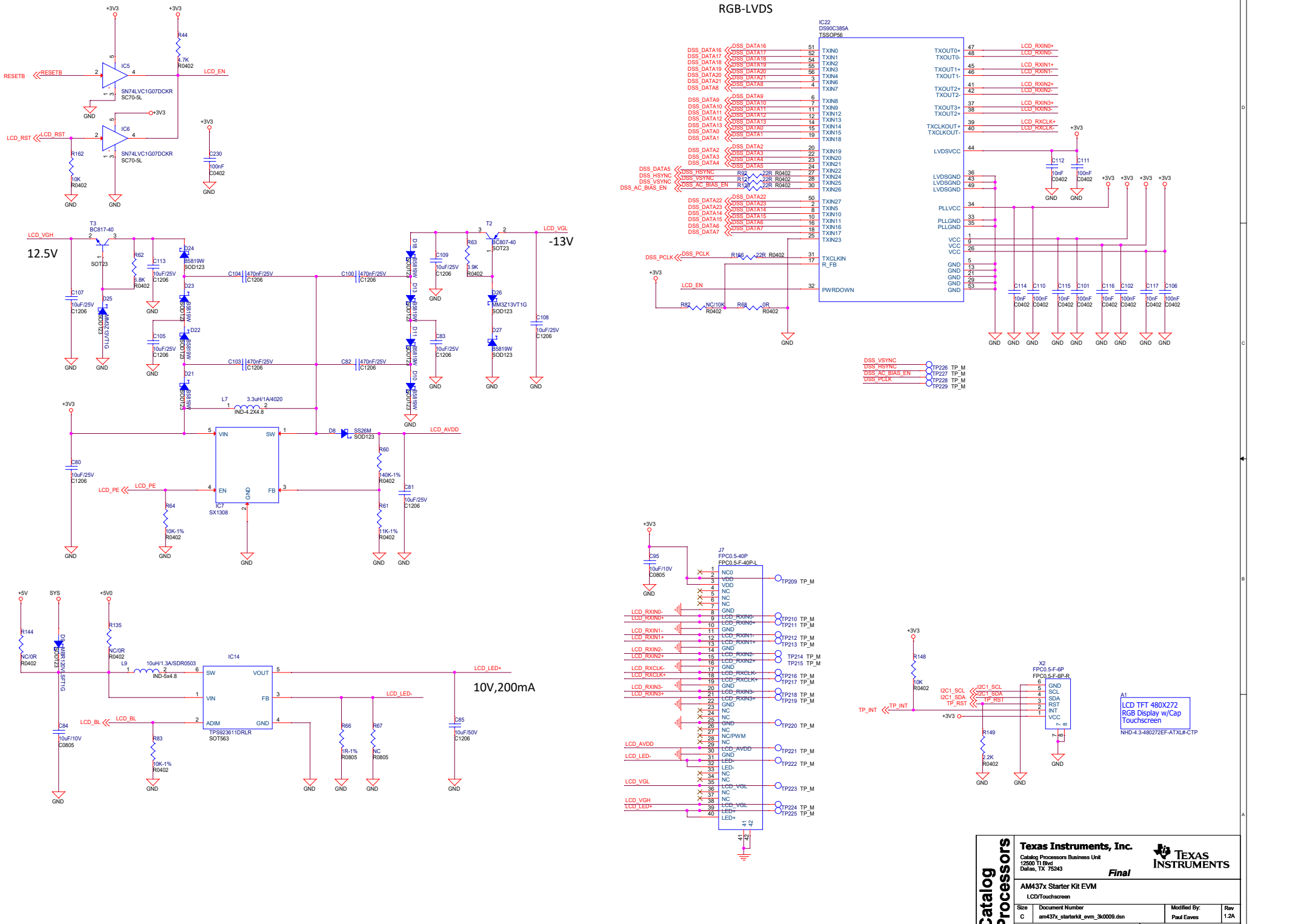
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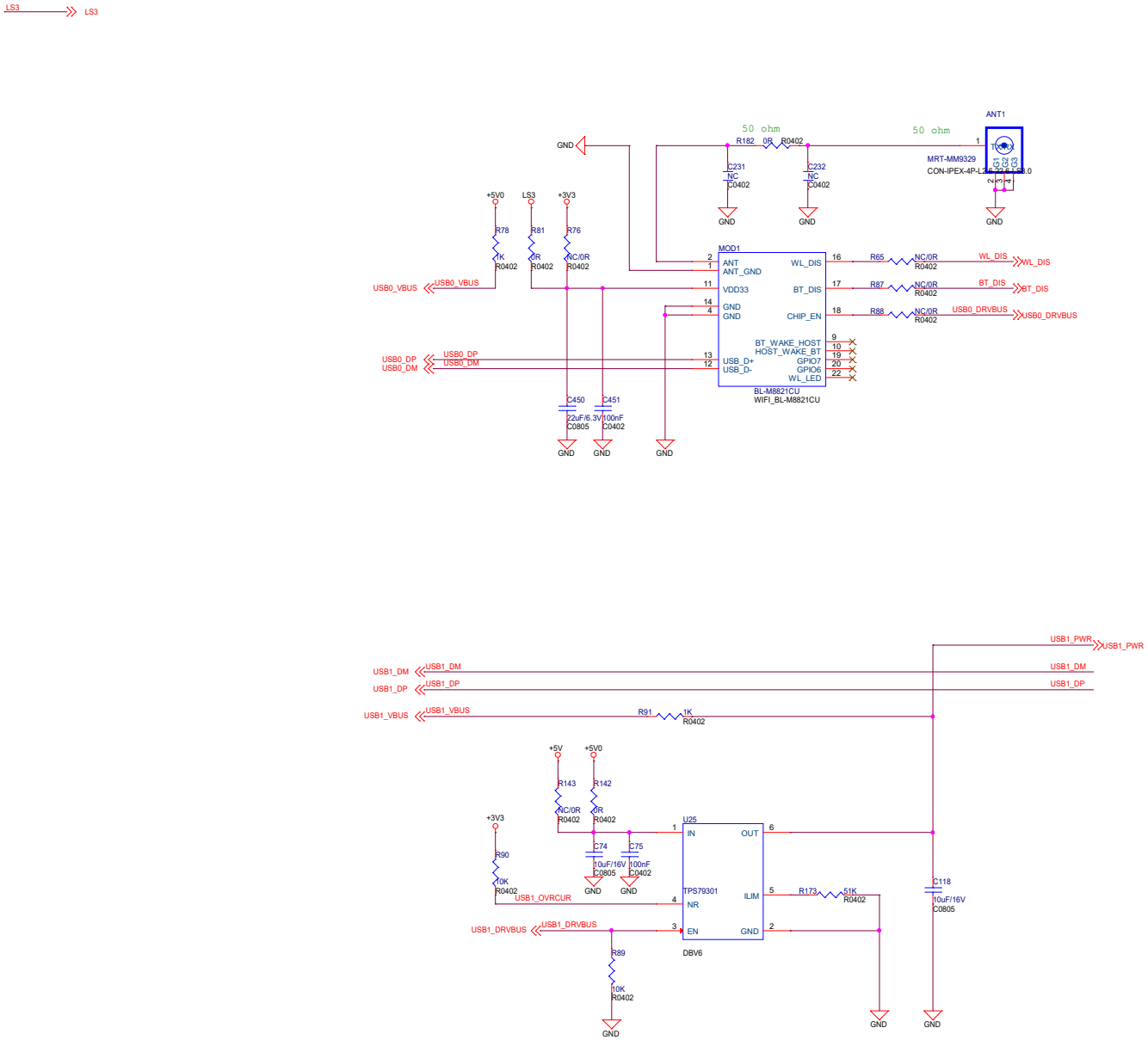
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AM437x Starter Kit EVM

Audio

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RGB-LVDS
IC22
DS90C385A
TSSOP56
12.5V
-13V
10V,200mA
LCD_RXIN0+
LCD_RXIN0-
LCD_RXIN1+
LCD_RXIN1-
LCD_RXIN2+
LCD_RXIN2-
LCD_RXCLK+
LCD_RXCLK-
LCD_RXIN3+
LCD_RXIN3-
DSS_VSYNC
DSS_HSYNC
DSS_AC_BIAS_EN
DSS_PCLK
LCD_EN
LCD_PE
LCD_BL
LCD_AVDD
LCD_LED-
LCD_LED+
LCD_VGH
LCD_VGL
I2C1_SCL
I2C1_SDA
TP_RST
TP_INT
LCD TFT 480X272
RGB Display w/Cap
Touchscreen
NHD-4.3-480272EF-ATXL#-CTP
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LCD/Touchscreen
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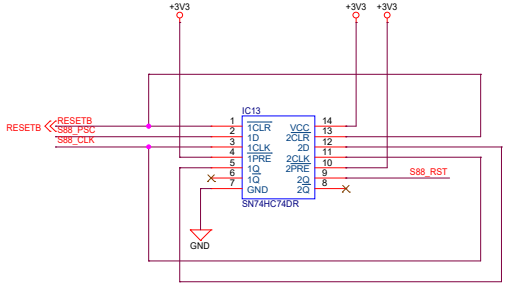
AM437x Starter Kit EVM
Camera

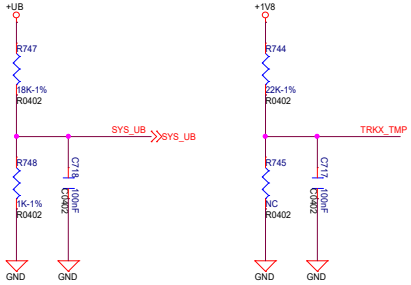
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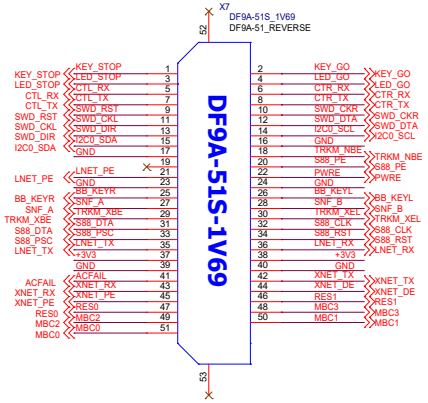
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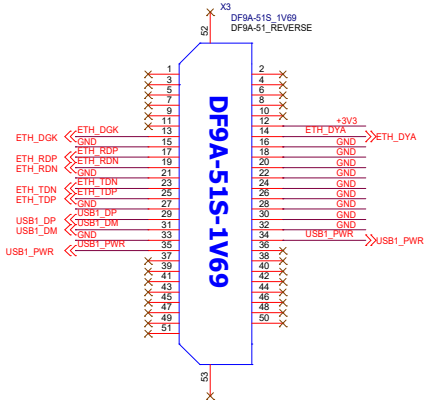
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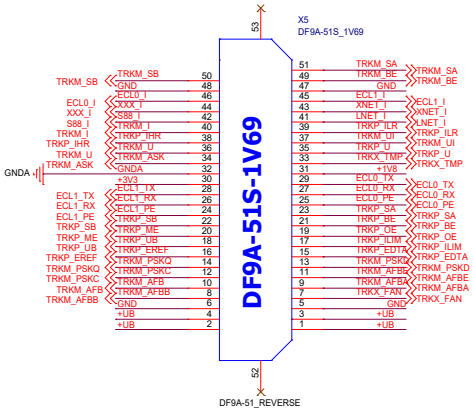
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USB #0 Dual Role

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