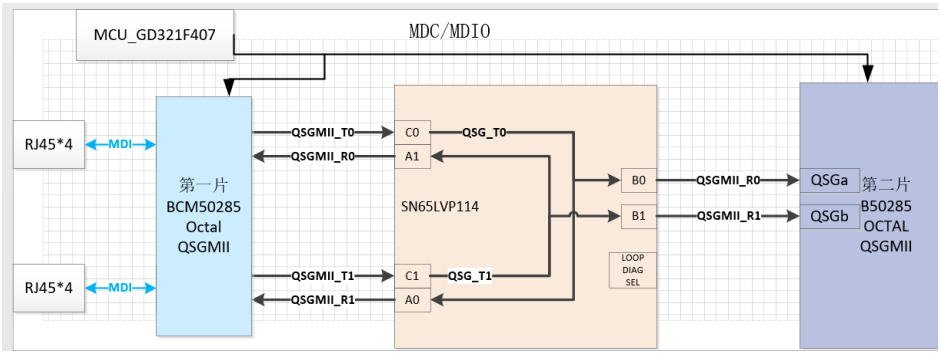

1-50285
TX0->RX1,TX1->RXO

1-50285-->2-50285
1-TX0->2-RX0,1-TX1->2-RX1

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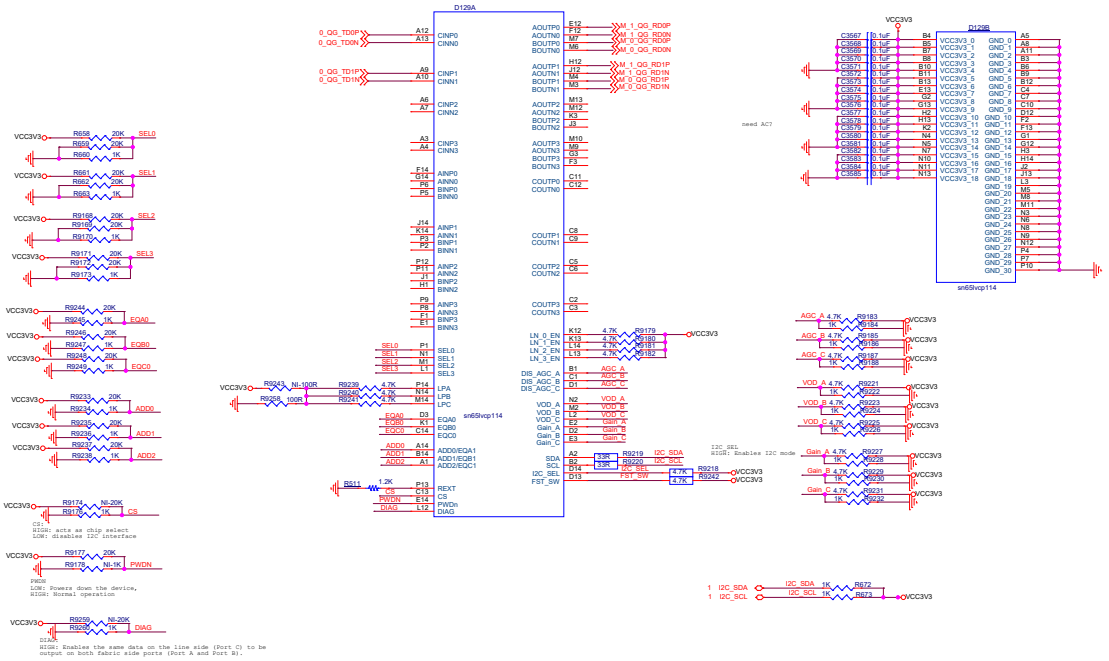
1-50285
TX0->RX1,TX1->RXO

1-50285-->2-50285
1-TX0->2-RX0,1-TX1->2-RX1



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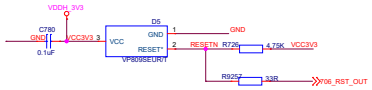

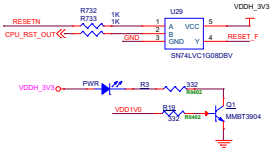

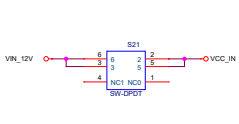

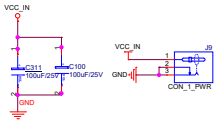

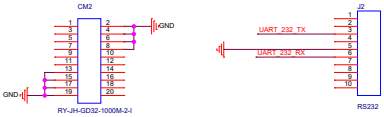

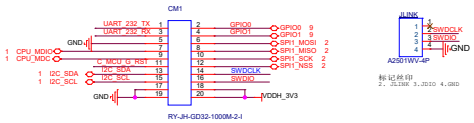

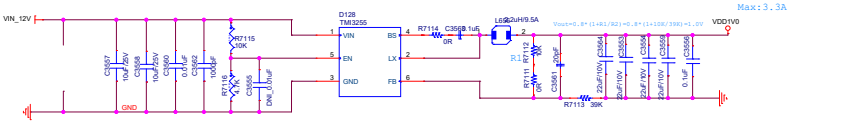
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TM3255
VIN
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L62
2.2uH/9.5A
R7112
R7111
C3561
20pF
R7113
39K
C3564
C3563
C3554
C3562
C3558
C3557
C3555
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D21
TM3255
R272
10K
VSB_VCC3V3_EN
R681
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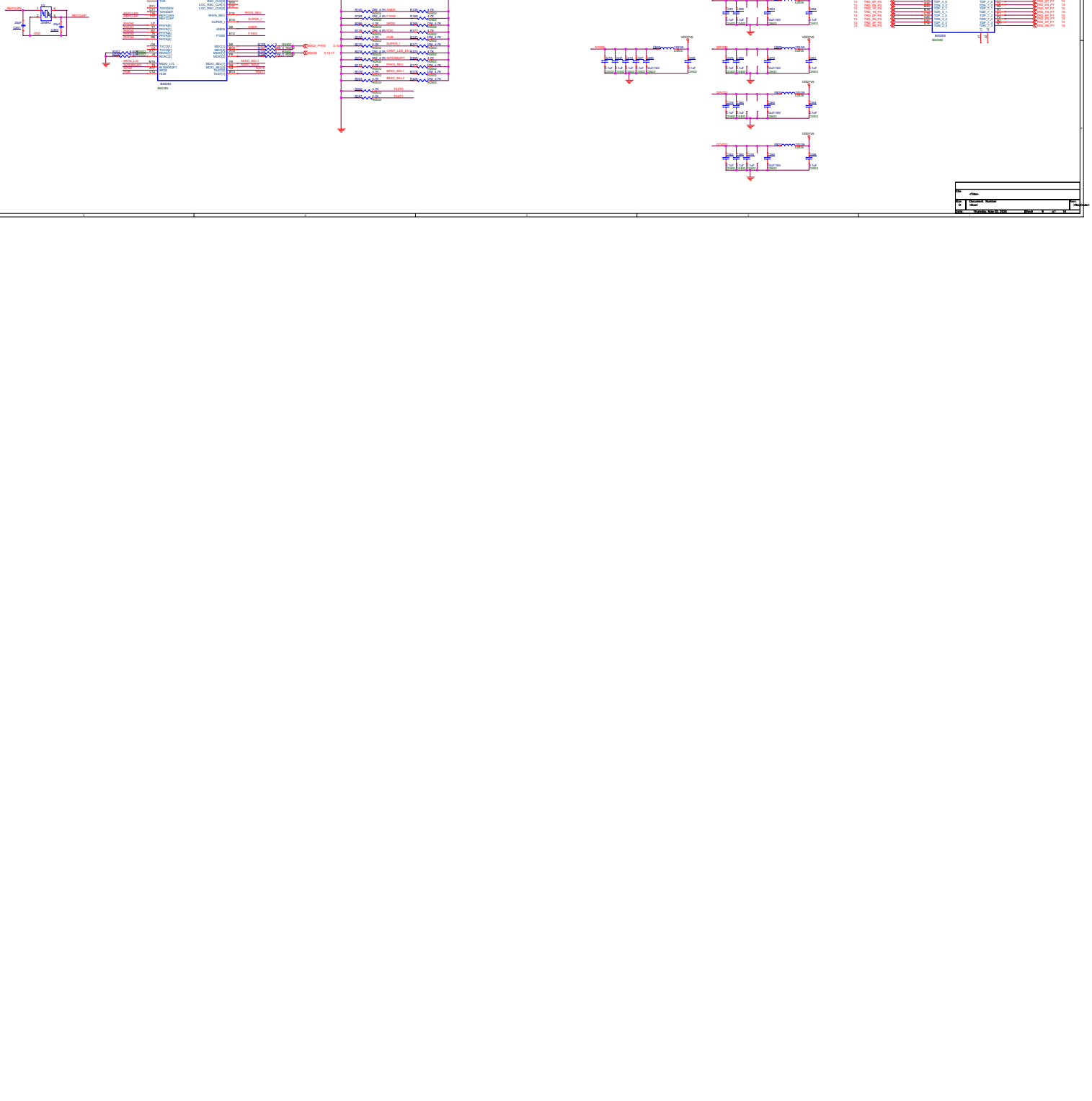
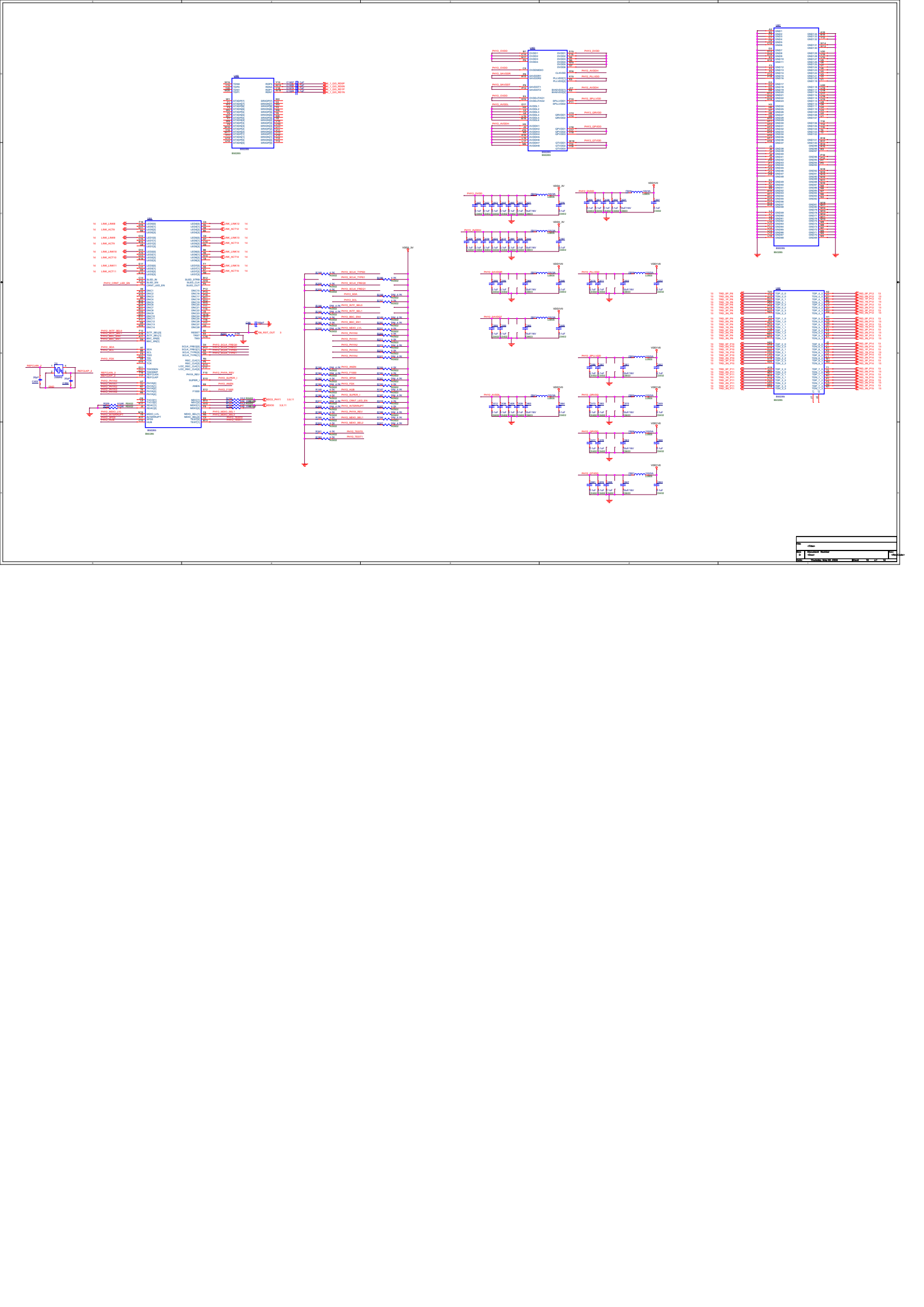
C3588
0.1uF
L24
3.3uH/6.5A
R226
20pF
R680
2M
R9167
12K
R2
C5
C1
C1
C1

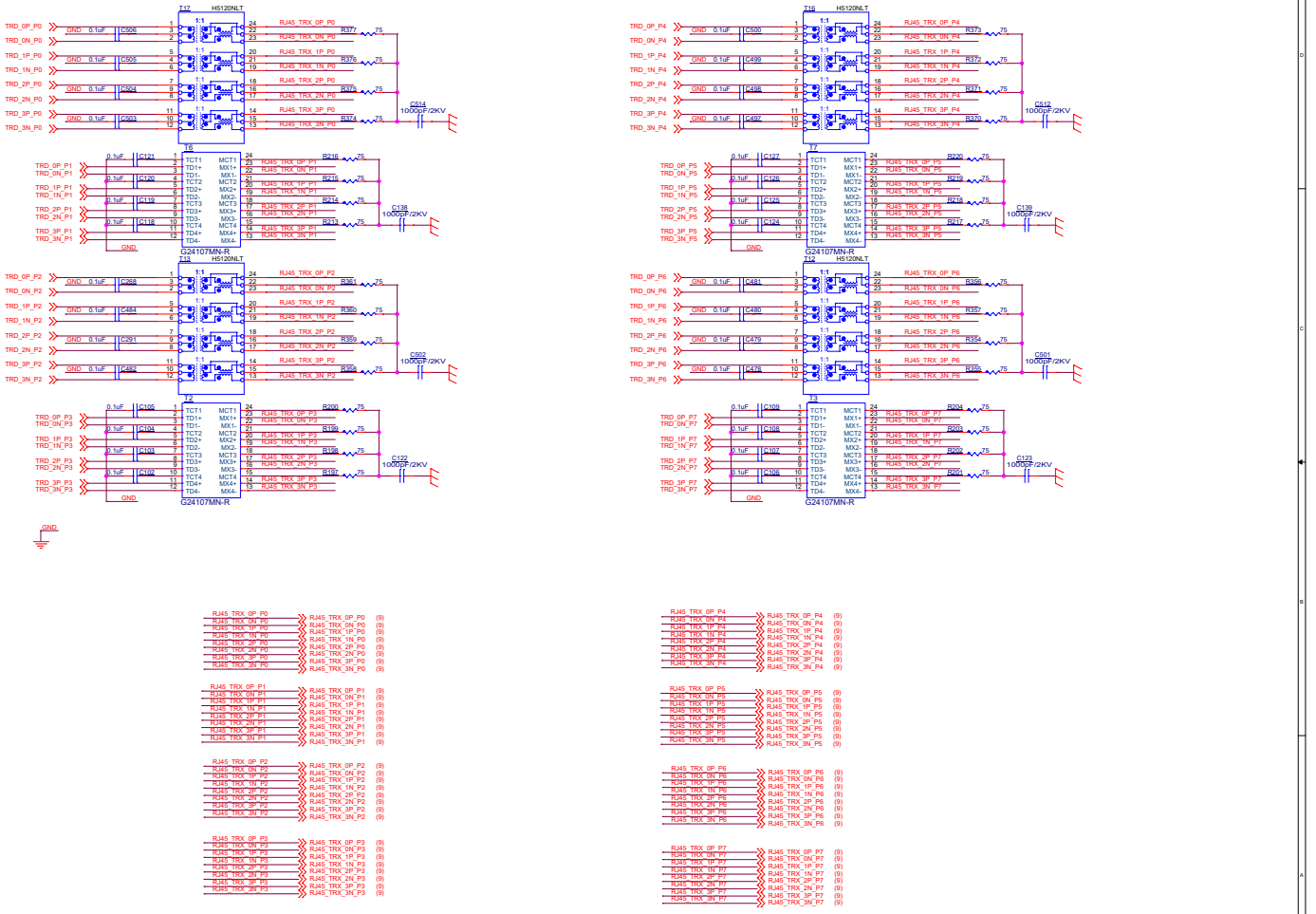
INTF_SEL[0] INTF_SEL[1]	$I_{PD,}$ SOR_D	**Interface Mode Select.** Active high. Select the PHY configuration shown below: INTF-SEL[1:0] MODE 00 QSGMII to Copper 01 QSGMII to Fiber 10 Reserved 11 Reserved ***Note:*** • Copper = 10BASE-T, 100BASE-TX 1000BASE-T. • Fiber = 100BASE-FX, 1000BASE-X, SGMII-Slave.
BSC_EN[0] BSC_EN[1]	$I_{PD,}$ SOR_D	**BSC Enable.** Active high. Broadcom Serial Control. The BSC interface acts as an I^2C Master. These inputs enable and select the type of EEPROM. See "Broadcom Serial Control Interface" on page 61 for details. BSC_EN[1:0]: • 00 = Disable BSC interface. • 11 = Auto detect between Small and Large PROM. ***Note:*** The Broadcom serial control (BSC) bus is NXP I^2C compatible.
TEST[0] TEST[1]	$I_{PD, CS,}$ O	**Test Mode Enables.** Active high. These balls must always be pulled low during normal operation. Pulling both balls high tristates all outputs. These balls are used by Broadcom for test purposes only. These balls should be tied to ground.

ANEN	$I_{PU,}$ SOR_D	**Auto-negotiation Select.** Active high. When high, auto-negotiation is enabled; when low, auto-negotiation is disabled. After reset, the auto-negotiation function is under software control. This ball works in conjunction with the F1000, FDX, and SPD0 to set up the default duplex and speed of the twisted-pair interface.
SPD0	$I_{PD,}$ SOR_D	**Speed Select.** Active high. Sets the default advertisement of the B50285, according to the following table.
F1000	$I_{PU,}$ SOR_D	

ANEN	F1000	SPD0	Description
0	0	0	Force 10BASE-T
0	0	1	Force 100BASE-TX
0	1	X	Force 1000BASE-T (See Note below)
1	0	0	Auto-negotiate advertise: 10BASE-T
1	0	1	Auto-negotiate advertise: 10/100BASE-TX
1	1	0	Auto-negotiate advertise: 10/100/1000BASE-T
1	1	1	Auto-negotiate advertise: 1000BASE-T







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T15 H5120NLT
T14 H5120NLT
T8
T9
T11 H5120NLT
T10 H5120NLT
T4
T5
G24107MN-R
GND
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C495
C494
C493
C492
C511
C510
C140
C141
C498
C491
C128
C133
R369
R368
R367
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R352
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R347
R346
R208
R207
R206
R205
R212
R211
R210
R209
75
1000pF/2KV
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TRD_0N_P8
TRD_1P_P8
TRD_1N_P8
TRD_2P_P8
TRD_2N_P8
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TRD_3N_P8
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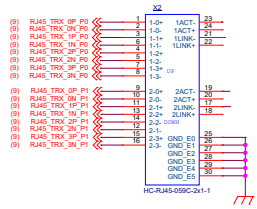

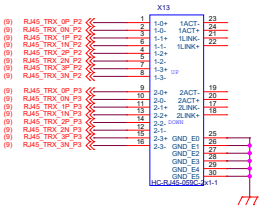

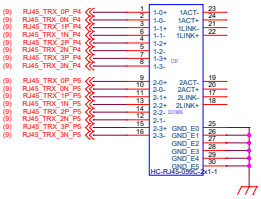

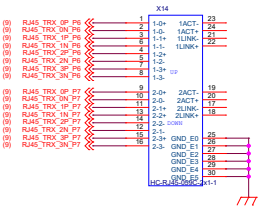

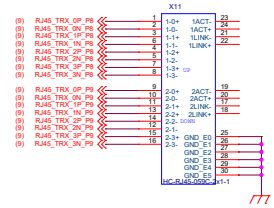

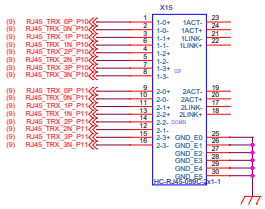

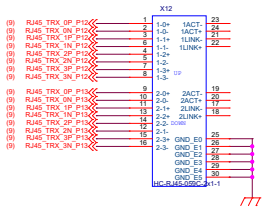

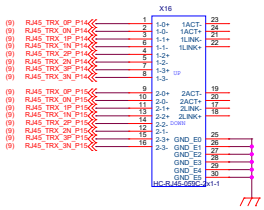

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