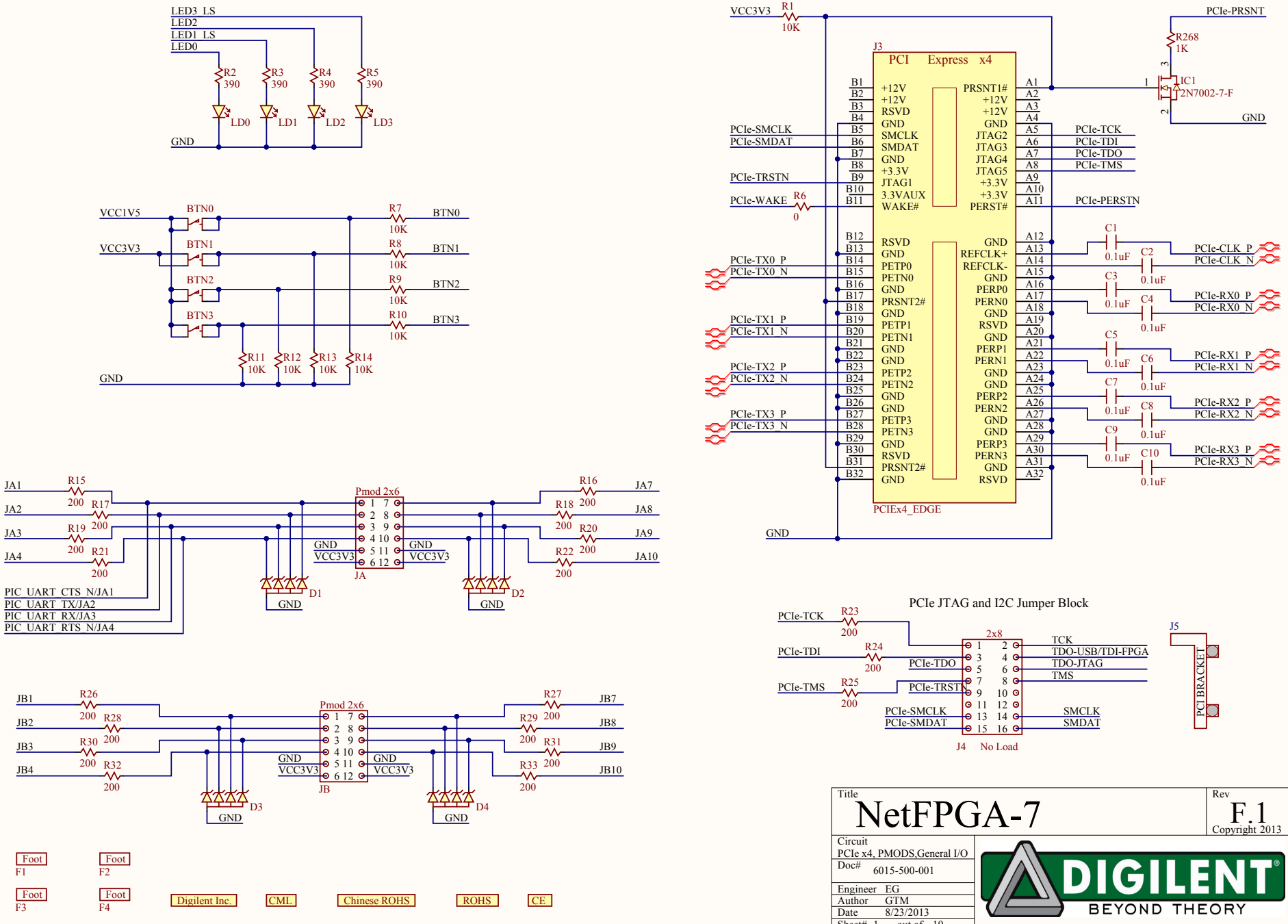
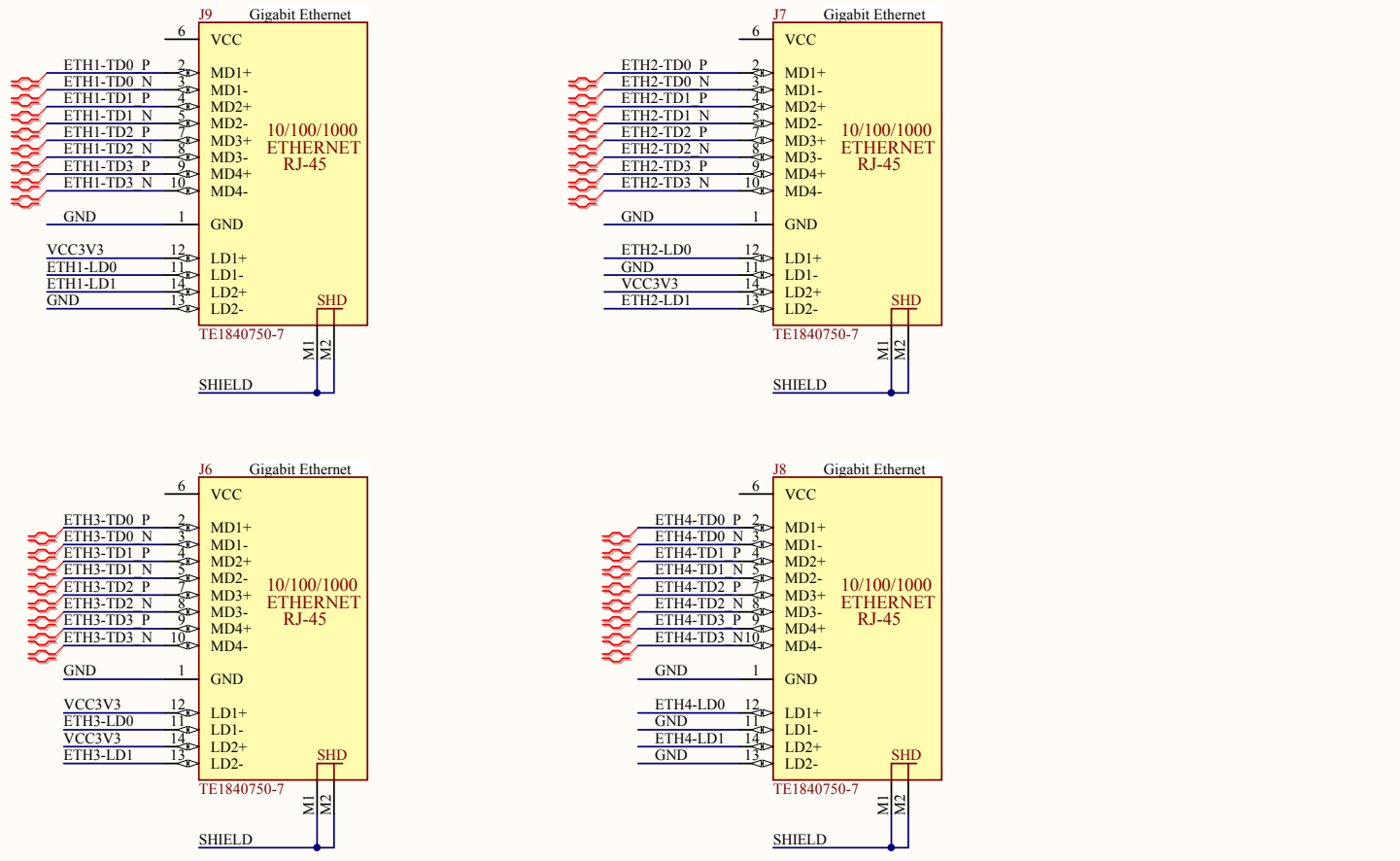
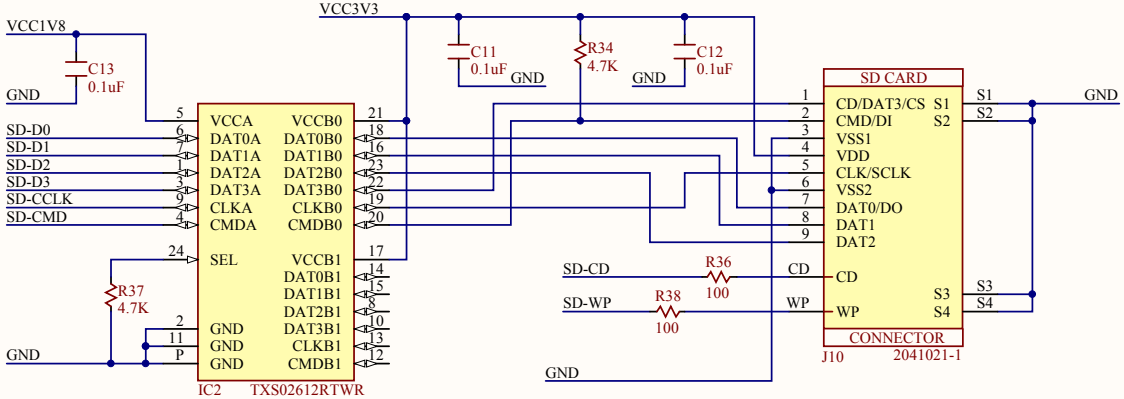
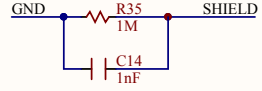

LED3_LS
LED2
LED1_LS
LED0
R2 390
R3 390
R4 390
R5 390
LD0
LD1
LD2
LD3
GND
VCC1V5
VCC3V3
BTN0
BTN1
BTN2
BTN3
R7 10K
R8 10K
R9 10K
R10 10K
R11 10K
R12 10K
R13 10K
R14 10K
VCC3V3
R1 10K
J3
PCI Express x4
PCIe-SMCLK
PCIe-SMDAT
PCIe-TRSTN
PCIe-WAKE
R6 0
PCIe-TX0_P
PCIe-TX0_N
PCIe-TX1_P
PCIe-TX1_N
PCIe-TX2_P
PCIe-TX2_N
PCIe-TX3_P
PCIe-TX3_N
PCIe-PRSNT
R268 1K
IC1 2N7002-7-F
PCIe-TCK
PCIe-TDI
PCIe-TDO
PCIe-TMS
PCIe-PERSTN
C1 0.1uF
C2 0.1uF
C3 0.1uF
C4 0.1uF
C5 0.1uF
C6 0.1uF
C7 0.1uF
C8 0.1uF
C9 0.1uF
C10 0.1uF
PCIe-CLK_P
PCIe-CLK_N
PCIe-RX0_P
PCIe-RX0_N
PCIe-RX1_P
PCIe-RX1_N
PCIe-RX2_P
PCIe-RX2_N
PCIe-RX3_P
PCIe-RX3_N
PCIEx4_EDGE
JA1
JA2
JA3
JA4
R15 200
R17 200
R19 200
R21 200
PIC_UART_CTS_N/JA1
PIC_UART_TX/JA2
PIC_UART_RX/JA3
PIC_UART_RTS_N/JA4
Pmod 2x6
JA
D1
D2
R16 200
R18 200
R20 200
R22 200
JA7
JA8
JA9
JA10
JB1
JB2
JB3
JB4
R26 200
R28 200
R30 200
R32 200
JB
D3
D4
R27 200
R29 200
R31 200
R33 200
JB7
JB8
JB9
JB10
PCIe JTAG and I2C Jumper Block
R23 200
R24 200
R25 200
2x8
TCK
TDO-USB/TDI-FPGA
TDO-JTAG
TMS
SMCLK
SMDAT
J4 No Load
J5
PCI BRACKET
Foot F1
Foot F2
Foot F3
Foot F4
Digilent Inc.
CML
Chinese ROHS
ROHS
CE
Title
NetFPGA-7
Rev
F.1
Copyright 2013
Circuit
PCIe x4, PMODS,General I/O
Doc# 6015-500-001
Engineer EG
Author GTM
Date 8/23/2013
Sheet# 1 out of 19
DIGILENT
BEYOND THEORY

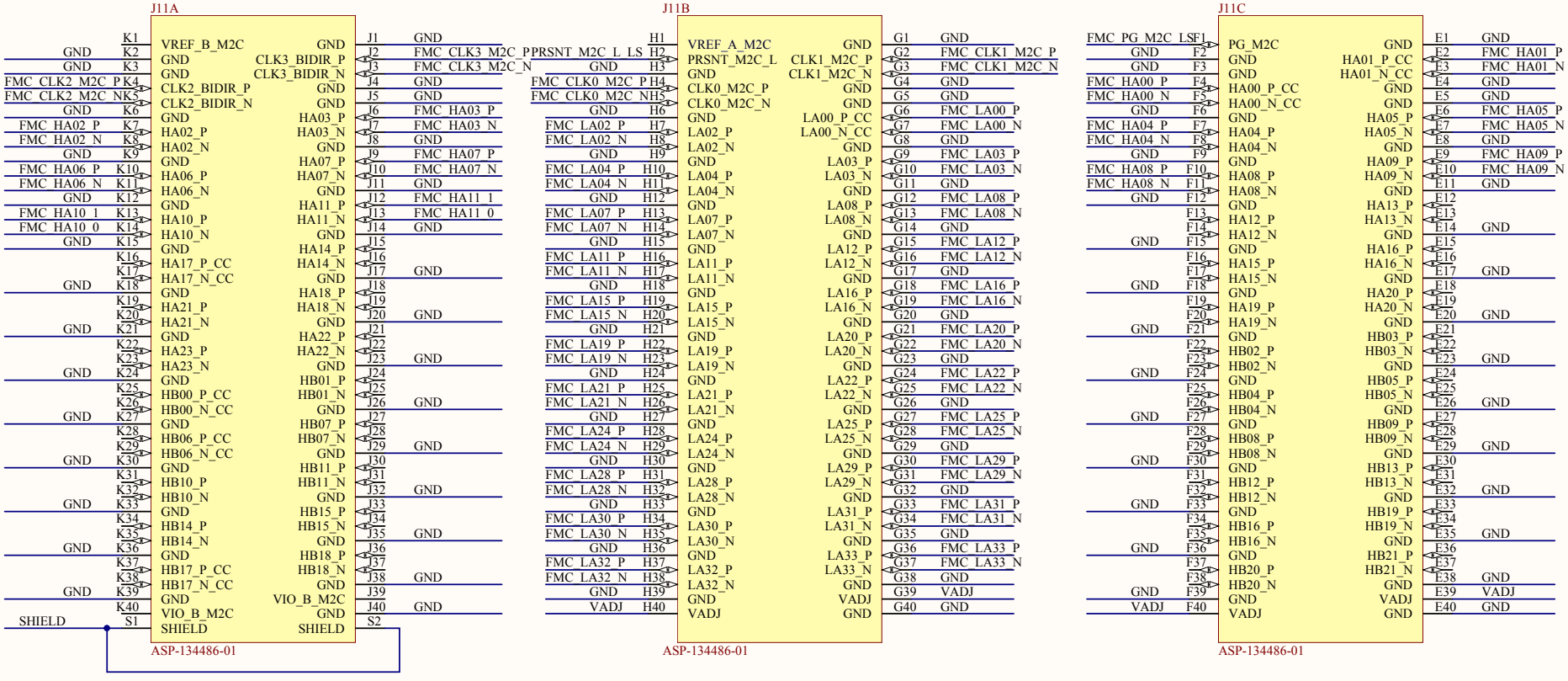






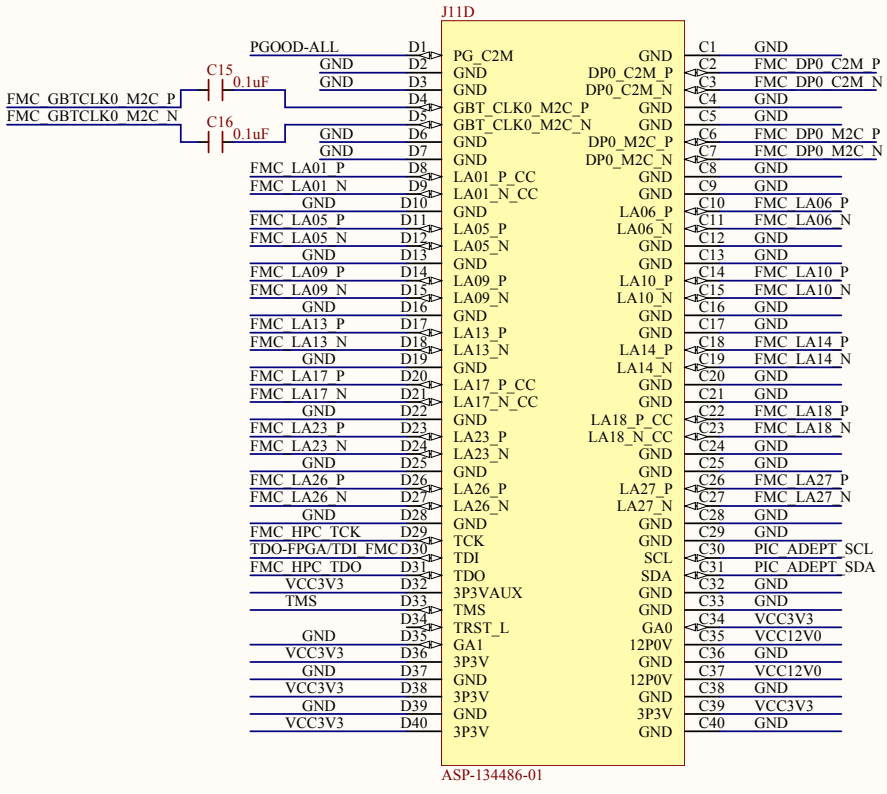
Title	NetFPGA-7
Rev	F.1
Copyright	2013
Circuit	RJ45 Connectors, SD Card
Doc#	6015-500-001
Engineer	EG
Author	GTM
Date	8/23/2013
Sheet#	2 out of 19

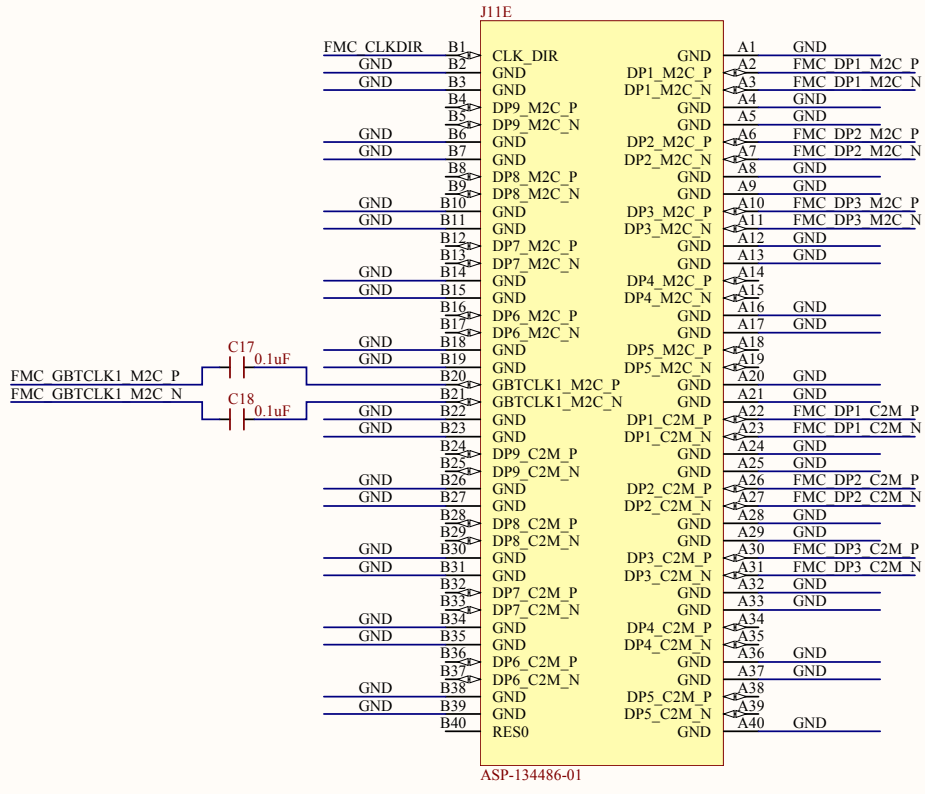
DIGILENT® BEYOND THEORY

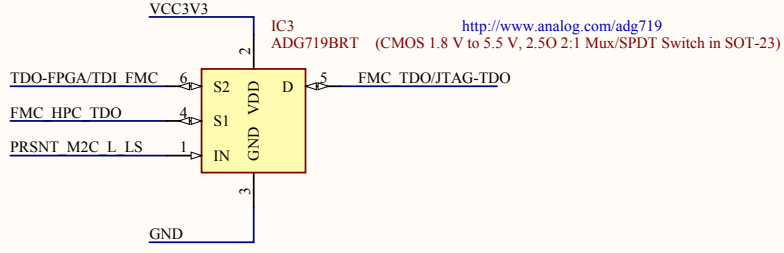


Title	NetFPGA-7
Rev	F.1
Copyright	2013
Circuit	FMC Connector
Doc#	6015-500-001
Engineer	EG
Author	GTM
Date	8/23/2013
Sheet#	3 out of 19

DIGILENT® BEYOND THEORY

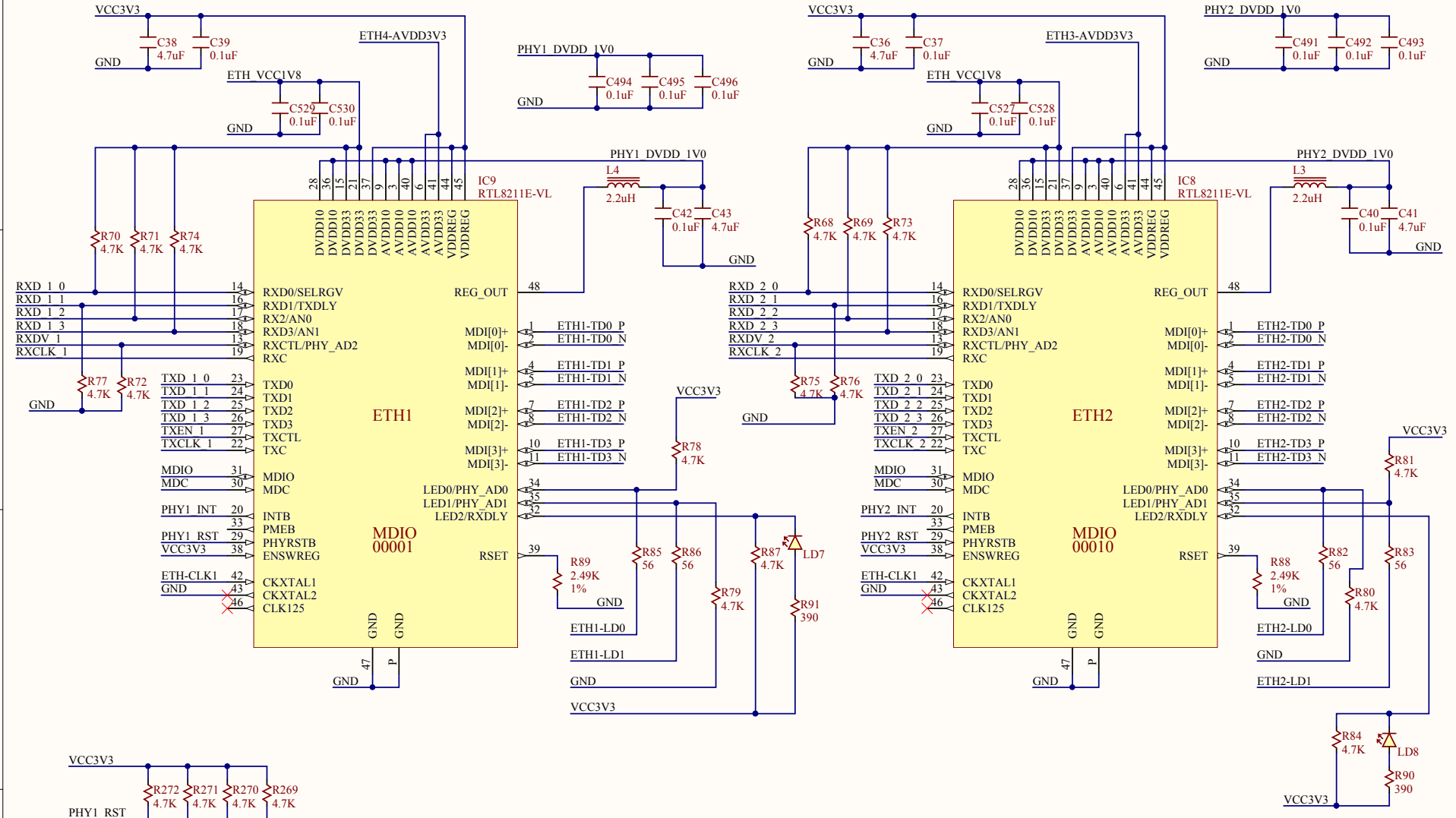






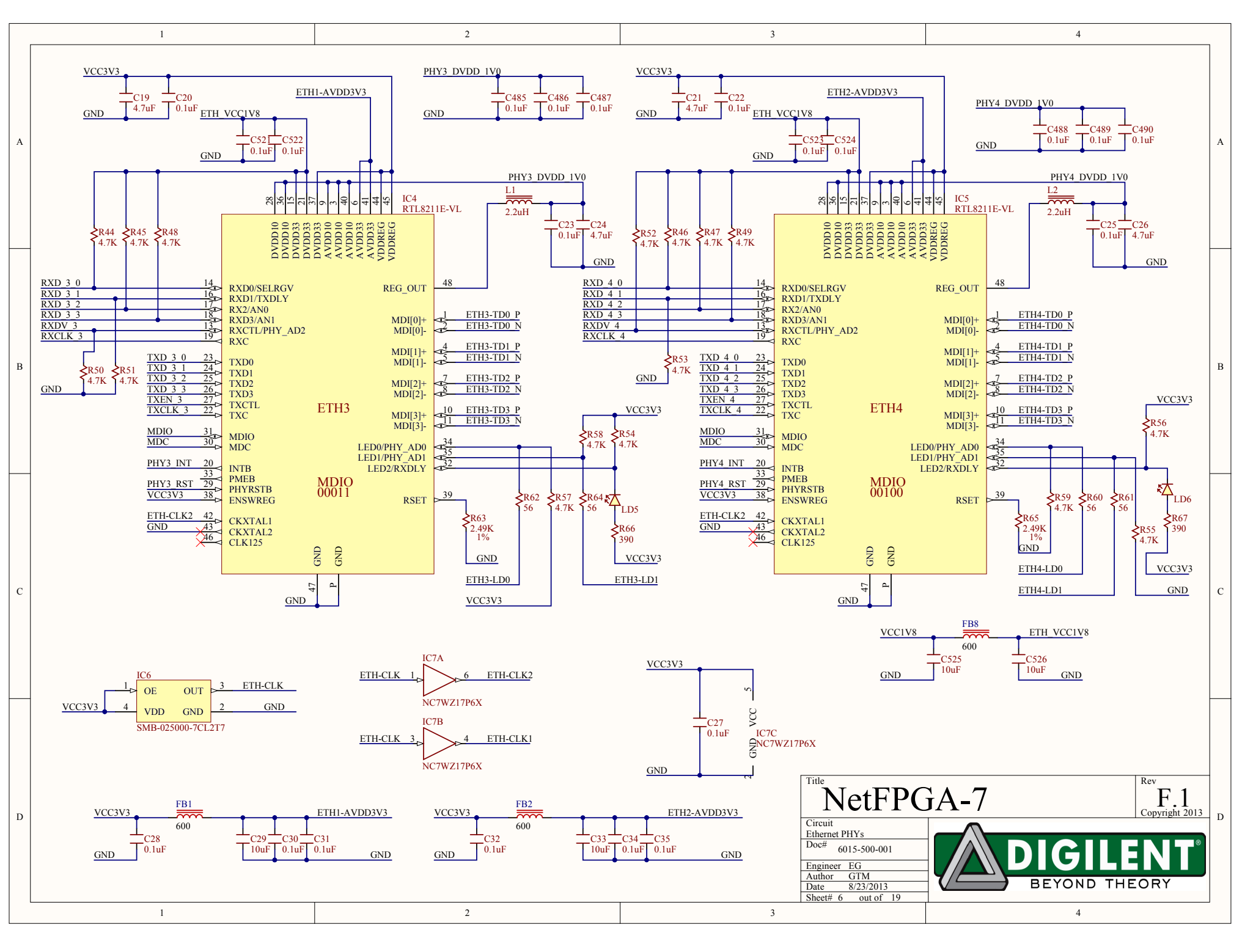
Title	NetFPGA-7
Rev	F.1
Copyright	2013
Circuit	FMC Connector
Doc#	6015-500-001
Engineer	EG
Author	GTM
Date	8/23/2013
Sheet#	4 out of 19

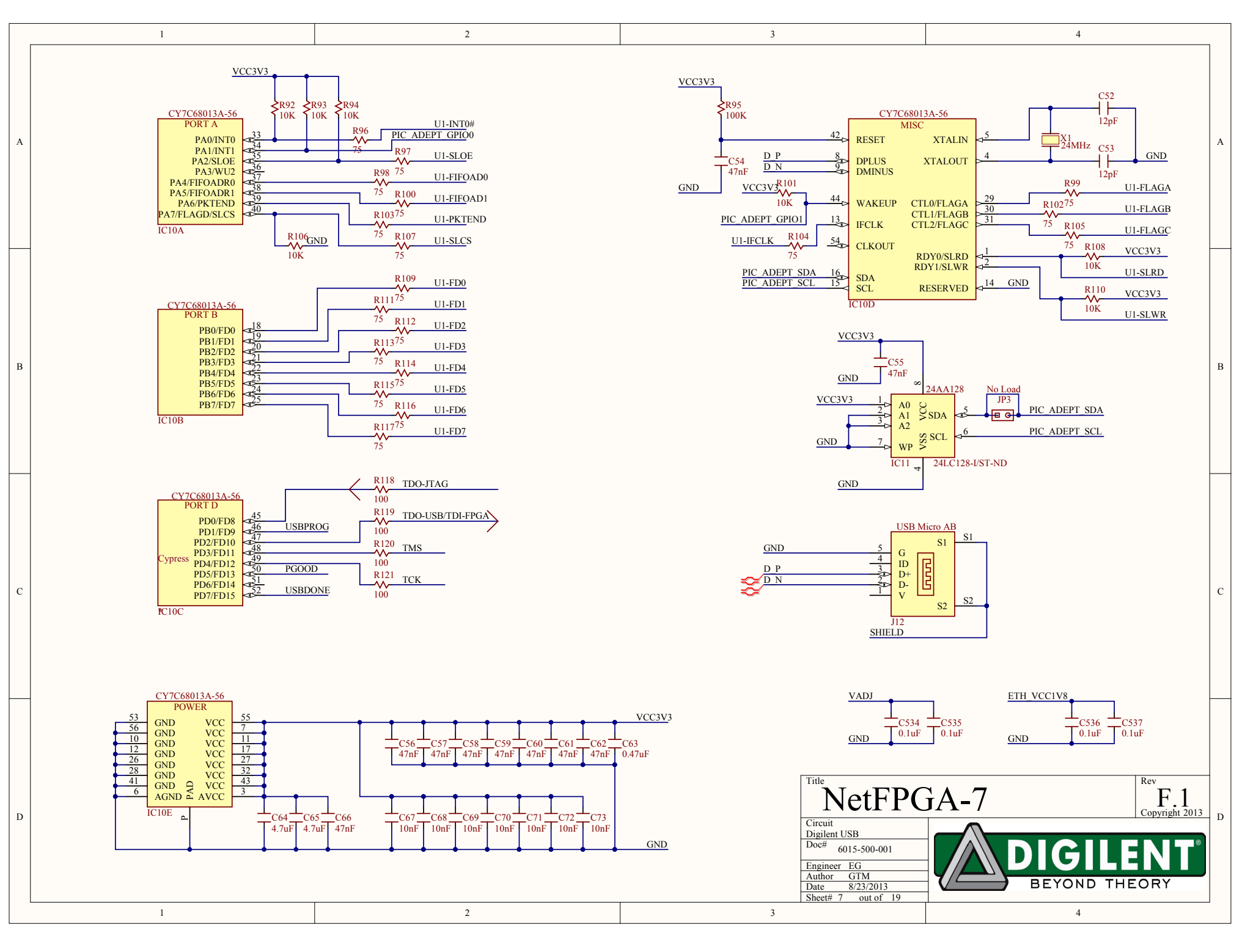
DIGILENT® BEYOND THEORY



Title	NetFPGA-7
Rev	F.1
Copyright	2013
Circuit	Ethernet PHYs
Doc#	6015-500-001
Engineer	EG
Author	GTM
Date	8/23/2013
Sheet#	5 out of 19

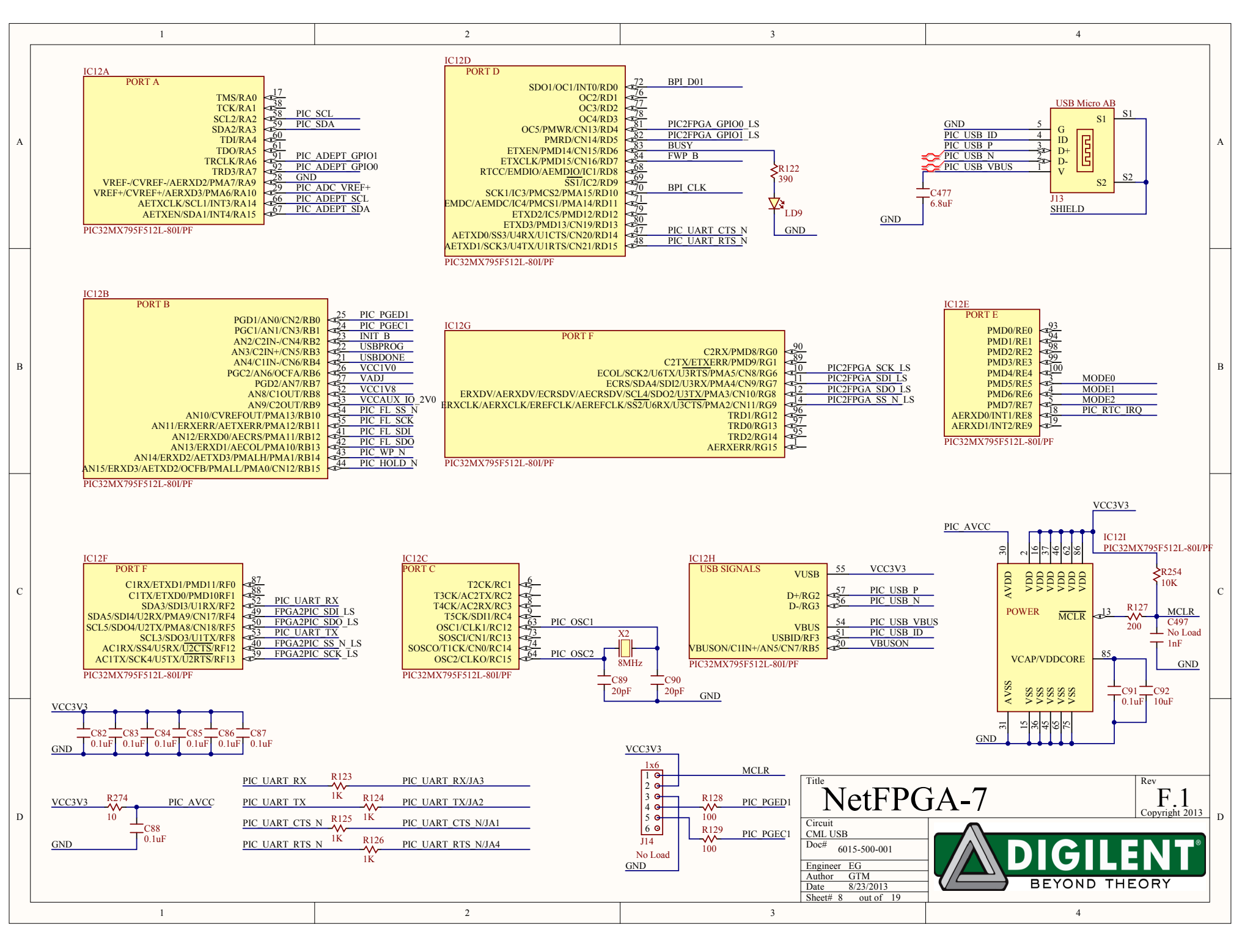
DIGILENT® BEYOND THEORY

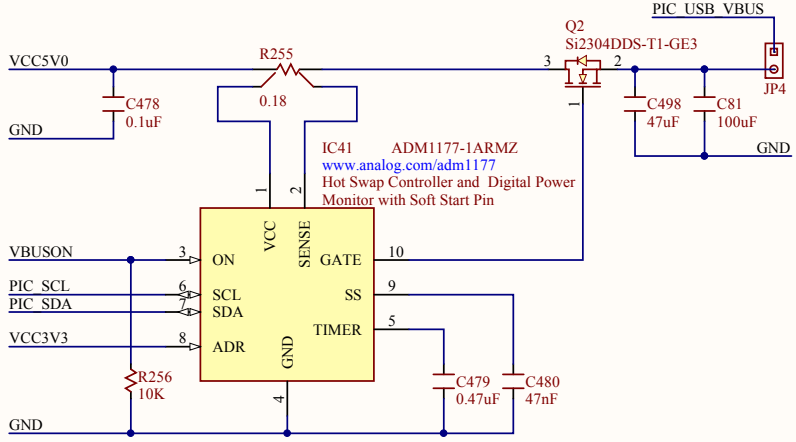

VCC3V3
GND
C19 4.7uF
C20 0.1uF
ETH1-AVDD3V3
ETH_VCC1V8
C521 0.1uF
C522 0.1uF
PHY3_DVDD_1V0
C485 0.1uF
C486 0.1uF
C487 0.1uF
L1 2.2uH
C23 0.1uF
C24 4.7uF
IC4 RTL8211E-VL
ETH3
MDIO 00011
R44 4.7K
R45 4.7K
R48 4.7K
R50 4.7K
R51 4.7K
RXD_3_0
RXD_3_1
RXD_3_2
RXD_3_3
RXDV_3
RXCLK_3
TXD_3_0
TXD_3_1
TXD_3_2
TXD_3_3
TXEN_3
TXCLK_3
MDIO
MDC
PHY3_INT
PHY3_RST
ETH-CLK2
ETH3-TD0_P
ETH3-TD0_N
ETH3-TD1_P
ETH3-TD1_N
ETH3-TD2_P
ETH3-TD2_N
ETH3-TD3_P
ETH3-TD3_N
R58 4.7K
R54 4.7K
R62 56
R57 4.7K
R64 56
LD5
R66 390
R63 2.49K 1%
ETH3-LD0
ETH3-LD1
VCC3V3
C21 4.7uF
C22 0.1uF
ETH2-AVDD3V3
ETH_VCC1V8
C523 0.1uF
C524 0.1uF
PHY4_DVDD_1V0
C488 0.1uF
C489 0.1uF
C490 0.1uF
L2 2.2uH
C25 0.1uF
C26 4.7uF
IC5 RTL8211E-VL
ETH4
MDIO 00100
R52 4.7K
R46 4.7K
R47 4.7K
R49 4.7K
R53 4.7K
RXD_4_0
RXD_4_1
RXD_4_2
RXD_4_3
RXDV_4
RXCLK_4
TXD_4_0
TXD_4_1
TXD_4_2
TXD_4_3
TXEN_4
TXCLK_4
PHY4_INT
PHY4_RST
ETH4-TD0_P
ETH4-TD0_N
ETH4-TD1_P
ETH4-TD1_N
ETH4-TD2_P
ETH4-TD2_N
ETH4-TD3_P
ETH4-TD3_N
R56 4.7K
R59 4.7K
R60 56
R61 56
R55 4.7K
LD6
R67 390
R65 2.49K 1%
ETH4-LD0
ETH4-LD1
VCC1V8
FB8 600
C525 10uF
C526 10uF
IC6 SMB-025000-7CL2T7
ETH-CLK
IC7A NC7WZ17P6X
ETH-CLK2
IC7B NC7WZ17P6X
ETH-CLK1
IC7C NC7WZ17P6X
C27 0.1uF
FB1 600
C28 0.1uF
C29 10uF
C30 0.1uF
C31 0.1uF
ETH1-AVDD3V3
FB2 600
C32 0.1uF
C33 10uF
C34 0.1uF
C35 0.1uF
ETH2-AVDD3V3
Title
NetFPGA-7
Rev
F.1
Copyright 2013
Circuit
Ethernet PHYs
Doc# 6015-500-001
Engineer EG
Author GTM
Date 8/23/2013
Sheet# 6 out of 19
DIGILENT
BEYOND THEORY



Title	NetFPGA-7
Rev	F.1
Copyright	2013
Circuit	Digilent USB
Doc#	6015-500-001
Engineer	EG
Author	GTM
Date	8/23/2013
Sheet#	7 out of 19

DIGILENT® BEYOND THEORY


IC12A
PORT A
TMS/RA0
TCK/RA1
SCL2/RA2
SDA2/RA3
TDI/RA4
TDO/RA5
TRCLK/RA6
TRD3/RA7
VREF-/CVREF-/AERXD2/PMA7/RA9
VREF+/CVREF+/AERXD3/PMA6/RA10
AETXCLK/SCL1/INT3/RA14
AETXEN/SDA1/INT4/RA15
PIC_SCL
PIC_SDA
PIC_ADEPT_GPIO1
PIC_ADEPT_GPIO0
GND
PIC_ADC_VREF+
PIC_ADEPT_SCL
PIC_ADEPT_SDA
PIC32MX795F512L-80I/PF
IC12D
PORT D
SDO1/OC1/INT0/RD0
OC2/RD1
OC3/RD2
OC4/RD3
OC5/PMWR/CN13/RD4
PMRD/CN14/RD5
ETXEN/PMD14/CN15/RD6
ETXCLK/PMD15/CN16/RD7
RTCC/EMDIO/AEMDIO/IC1/RD8
SS1/IC2/RD9
SCK1/IC3/PMCS2/PMA15/RD10
EMDC/AEMDC/IC4/PMCS1/PMA14/RD11
ETXD2/IC5/PMD12/RD12
ETXD3/PMD13/CN19/RD13
AETXD0/SS3/U4RX/U1CTS/CN20/RD14
AETXD1/SCK3/U4TX/U1RTS/CN21/RD15
BPI_D01
PIC2FPGA_GPIO0_LS
PIC2FPGA_GPIO1_LS
BUSY
FWP_B
BPI_CLK
PIC_UART_CTS_N
PIC_UART_RTS_N
R122
390
LD9
GND
PIC32MX795F512L-80I/PF
USB Micro AB
GND
PIC_USB_ID
PIC_USB_P
PIC_USB_N
PIC_USB_VBUS
G
ID
D+
D-
V
S1
S2
J13
SHIELD
C477
6.8uF
GND
IC12B
PORT B
PGD1/AN0/CN2/RB0
PGC1/AN1/CN3/RB1
AN2/C2IN-/CN4/RB2
AN3/C2IN+/CN5/RB3
AN4/C1IN-/CN6/RB4
PGC2/AN6/OCFA/RB6
PGD2/AN7/RB7
AN8/C1OUT/RB8
AN9/C2OUT/RB9
AN10/CVREFOUT/PMA13/RB10
AN11/ERXERR/AETXERR/PMA12/RB11
AN12/ERXD0/AECRS/PMA11/RB12
AN13/ERXD1/AECOL/PMA10/RB13
AN14/ERXD2/AETXD3/PMALH/PMA1/RB14
AN15/ERXD3/AETXD2/OCFB/PMALL/PMA0/CN12/RB15
PIC_PGED1
PIC_PGEC1
INIT_B
USBPROG
USBDONE
VCC1V0
VADJ
VCC1V8
VCCAUX_IO_2V0
PIC_FL_SS_N
PIC_FL_SCK
PIC_FL_SDI
PIC_FL_SDO
PIC_WP_N
PIC_HOLD_N
PIC32MX795F512L-80I/PF
IC12G
PORT F
C2RX/PMD8/RG0
C2TX/ETXERR/PMD9/RG1
ECOL/SCK2/U6TX/U3RTS/PMA5/CN8/RG6
ECRS/SDA4/SDI2/U3RX/PMA4/CN9/RG7
ERXDV/AERXDV/ECRSDV/AECRSDV/SCL4/SDO2/U3TX/PMA3/CN10/RG8
ERXCLK/AERXCLK/EREFCLK/AEREFCLK/SS2/U6RX/U3CTS/PMA2/CN11/RG9
TRD1/RG12
TRD0/RG13
TRD2/RG14
AERXERR/RG15
PIC2FPGA_SCK_LS
PIC2FPGA_SDI_LS
PIC2FPGA_SDO_LS
PIC2FPGA_SS_N_LS
PIC32MX795F512L-80I/PF
IC12E
PORT E
PMD0/RE0
PMD1/RE1
PMD2/RE2
PMD3/RE3
PMD4/RE4
PMD5/RE5
PMD6/RE6
PMD7/RE7
AERXD0/INT1/RE8
AERXD1/INT2/RE9
MODE0
MODE1
MODE2
PIC_RTC_IRQ
PIC32MX795F512L-80I/PF
IC12F
PORT F
C1RX/ETXD1/PMD11/RF0
C1TX/ETXD0/PMD10RF1
SDA3/SDI3/U1RX/RF2
SDA5/SDI4/U2RX/PMA9/CN17/RF4
SCL5/SDO4/U2TX/PMA8/CN18/RF5
SCL3/SDO3/U1TX/RF8
AC1RX/SS4/U5RX/U2CTS/RF12
AC1TX/SCK4/U5TX/U2RTS/RF13
PIC_UART_RX
FPGA2PIC_SDI_LS
FPGA2PIC_SDO_LS
PIC_UART_TX
FPGA2PIC_SS_N_LS
FPGA2PIC_SCK_LS
PIC32MX795F512L-80I/PF
IC12C
PORT C
T2CK/RC1
T3CK/AC2TX/RC2
T4CK/AC2RX/RC3
T5CK/SDI1/RC4
OSC1/CLK1/RC12
SOSCI/CN1/RC13
SOSCO/T1CK/CN0/RC14
OSC2/CLKO/RC15
PIC_OSC1
PIC_OSC2
X2
8MHz
C89
20pF
C90
20pF
GND
PIC32MX795F512L-80I/PF
IC12H
USB SIGNALS
VUSB
D+/RG2
D-/RG3
VBUS
USBID/RF3
VBUSON/C1IN+/AN5/CN7/RB5
VCC3V3
PIC_USB_P
PIC_USB_N
PIC_USB_VBUS
PIC_USB_ID
VBUSON
PIC32MX795F512L-80I/PF
VCC3V3
PIC_AVCC
IC12I
PIC32MX795F512L-80I/PF
AVDD
VDD
POWER
MCLR
VCAP/VDDCORE
AVSS
VSS
R254
10K
R127
200
MCLR
C497
No Load
1nF
C91
0.1uF
C92
10uF
GND
VCC3V3
C82
C83
C84
C85
C86
C87
0.1uF
GND
VCC3V3
R274
10
PIC_AVCC
C88
0.1uF
GND
PIC_UART_RX
R123
1K
PIC_UART_RX/JA3
PIC_UART_TX
R124
1K
PIC_UART_TX/JA2
PIC_UART_CTS_N
R125
1K
PIC_UART_CTS_N/JA1
PIC_UART_RTS_N
R126
1K
PIC_UART_RTS_N/JA4
VCC3V3
1x6
J14
No Load
GND
MCLR
R128
100
PIC_PGED1
R129
100
PIC_PGEC1
Title
NetFPGA-7
Rev
F.1
Copyright 2013
Circuit
CML USB
Doc#
6015-500-001
Engineer EG
Author GTM
Date 8/23/2013
Sheet# 8 out of 19
DIGILENT
BEYOND THEORY



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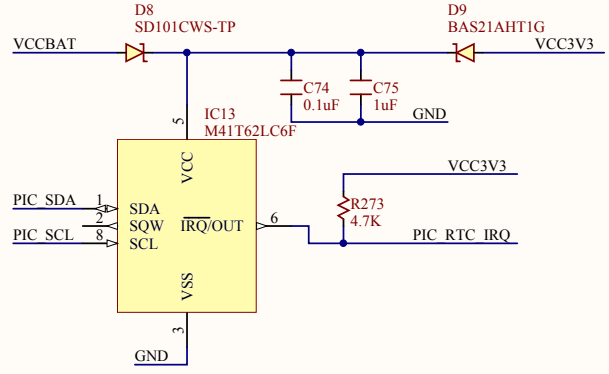

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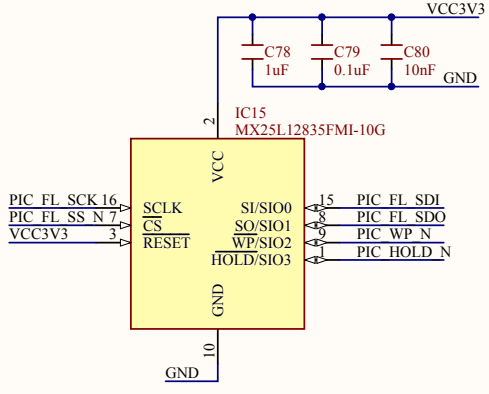

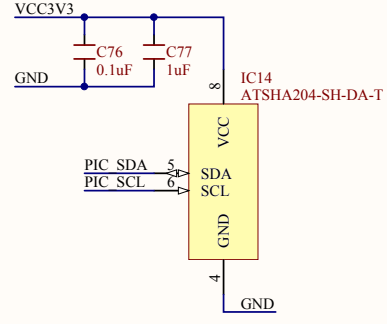

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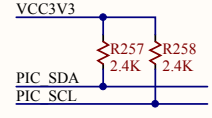

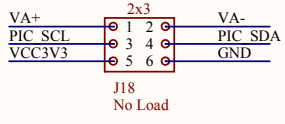

Title	NetFPGA-7
Rev	F.1
Copyright	2013
Circuit	RTC, Pwr Monitor, CryptoAuth, SPI Flash
Doc#	6015-500-001
Engineer	EG
Author	GTM
Date	8/23/2013
Sheet#	9 out of 19

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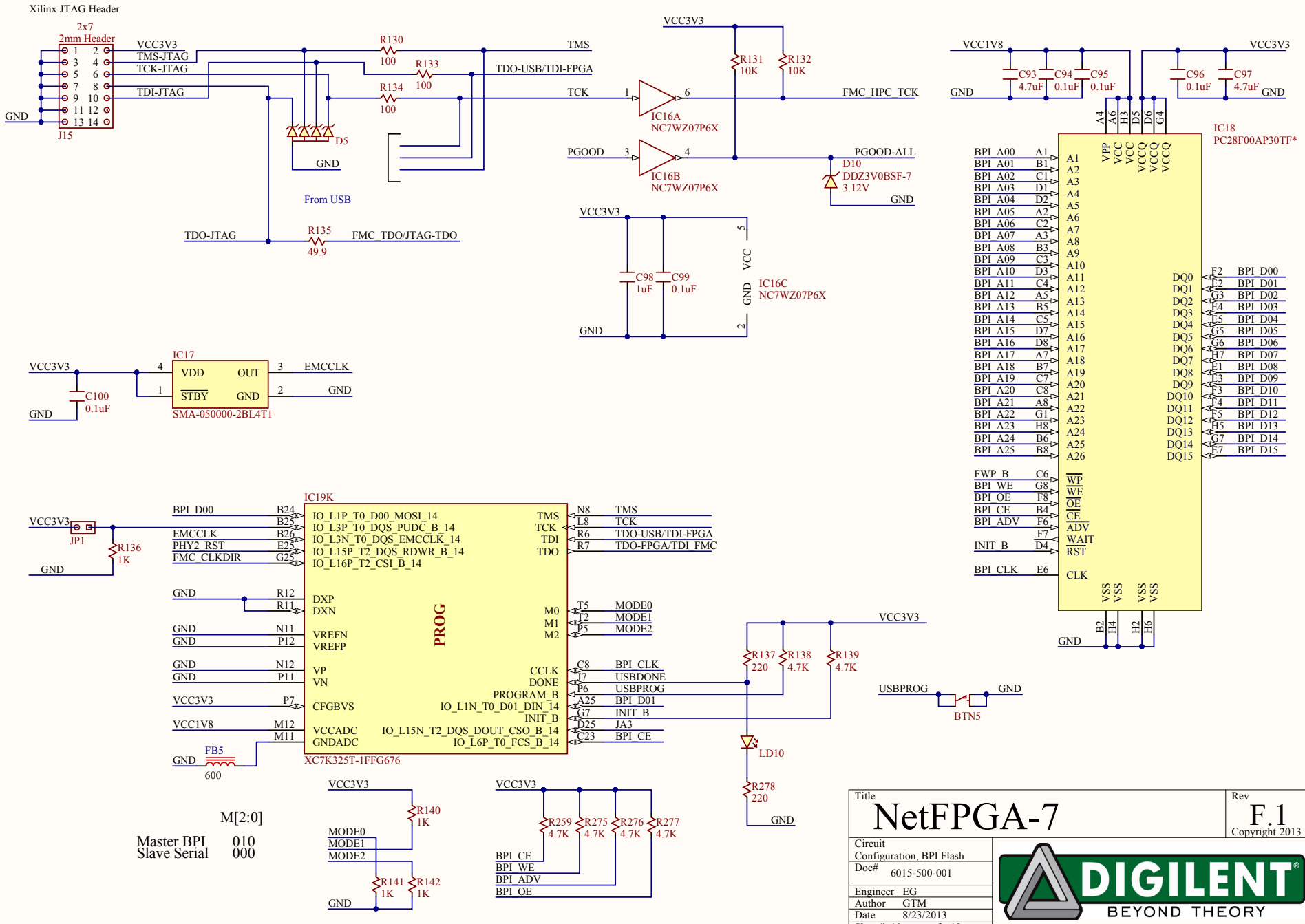
Xilinx JTAG Header
2x7
2mm Header
J15
VCC3V3
TMS-JTAG
TCK-JTAG
TDI-JTAG
GND
R130
100
R133
100
R134
100
TMS
TDO-USB/TDI-FPGA
TCK
D5
From USB
TDO-JTAG
R135
49.9
FMC_TDO/JTAG-TDO
VCC3V3
R131
10K
R132
10K
IC16A
NC7WZ07P6X
FMC_HPC_TCK
PGOOD
IC16B
NC7WZ07P6X
PGOOD-ALL
D10
DDZ3V0BSF-7
3.12V
C98
1uF
C99
0.1uF
IC16C
NC7WZ07P6X
VCC1V8
C93
4.7uF
C94
0.1uF
C95
0.1uF
C96
0.1uF
C97
4.7uF
IC18
PC28F00AP30TF*
BPI_A00
BPI_A01
BPI_A02
BPI_A03
BPI_A04
BPI_A05
BPI_A06
BPI_A07
BPI_A08
BPI_A09
BPI_A10
BPI_A11
BPI_A12
BPI_A13
BPI_A14
BPI_A15
BPI_A16
BPI_A17
BPI_A18
BPI_A19
BPI_A20
BPI_A21
BPI_A22
BPI_A23
BPI_A24
BPI_A25
FWP_B
BPI_WE
BPI_OE
BPI_CE
BPI_ADV
INIT_B
BPI_CLK
BPI_D00
BPI_D01
BPI_D02
BPI_D03
BPI_D04
BPI_D05
BPI_D06
BPI_D07
BPI_D08
BPI_D09
BPI_D10
BPI_D11
BPI_D12
BPI_D13
BPI_D14
BPI_D15
IC17
SMA-050000-2BL4T1
C100
0.1uF
EMCCLK
IC19K
XC7K325T-1FFG676
PROG
JP1
R136
1K
PHY2_RST
FMC_CLKDIR
FB5
600
R137
220
R138
4.7K
R139
4.7K
USBPROG
BTN5
LD10
R278
220
M[2:0]
Master BPI 010
Slave Serial 000
R140
1K
R141
1K
R142
1K
R259
4.7K
R275
4.7K
R276
4.7K
R277
4.7K
Title
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Rev
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Circuit
Configuration, BPI Flash
Doc# 6015-500-001
Engineer EG
Author GTM
Date 8/23/2013
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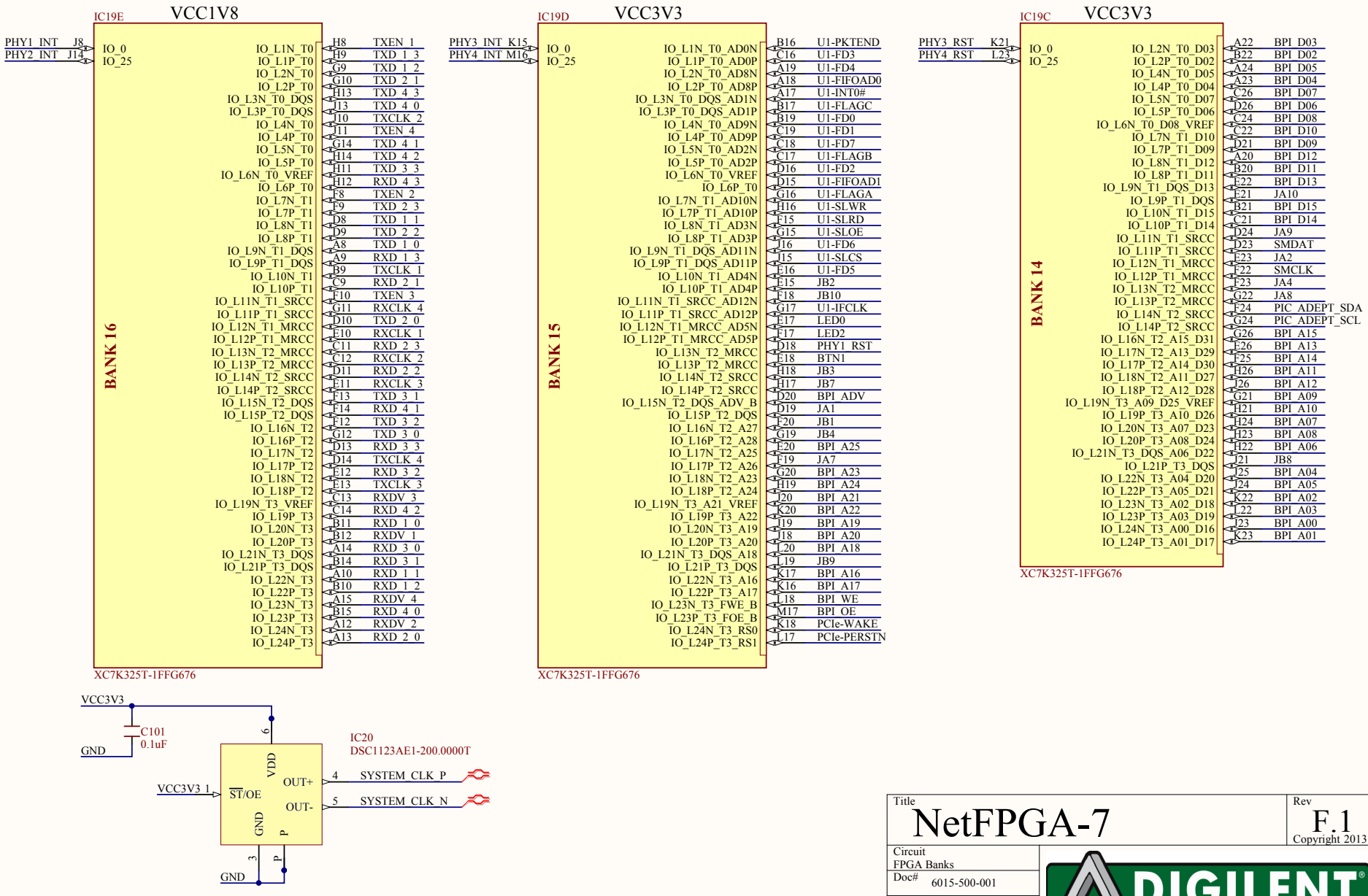
IC19E
VCC1V8
PHY1_INT J8
PHY2_INT J14
IO_0
IO_25
BANK 16
IO_L1N_T0 H8 TXEN_1
IO_L1P_T0 H9 TXD_1_3
IO_L2N_T0 G9 TXD_1_2
IO_L2P_T0 G10 TXD_2_1
IO_L3N_T0_DQS H13 TXD_4_3
IO_L3P_T0_DQS J13 TXD_4_0
IO_L4N_T0 J10 TXCLK_2
IO_L4P_T0 J11 TXEN_4
IO_L5N_T0 G14 TXD_4_1
IO_L5P_T0 H14 TXD_4_2
IO_L6N_T0_VREF H11 TXD_3_3
IO_L6P_T0 H12 RXD_4_3
IO_L7N_T1 F8 TXEN_2
IO_L7P_T1 F9 TXD_2_3
IO_L8N_T1 D8 TXD_1_1
IO_L8P_T1 D9 TXD_2_2
IO_L9N_T1_DQS A8 TXD_1_0
IO_L9P_T1_DQS A9 RXD_1_3
IO_L10N_T1 B9 TXCLK_1
IO_L10P_T1 C9 RXD_2_1
IO_L11N_T1_SRCC E10 TXEN_3
IO_L11P_T1_SRCC G11 RXCLK_4
IO_L12N_T1_MRCC D10 TXD_2_0
IO_L12P_T1_MRCC E10 RXCLK_1
IO_L13N_T2_MRCC C11 RXD_2_3
IO_L13P_T2_MRCC C12 RXCLK_2
IO_L14N_T2_SRCC D11 RXD_2_2
IO_L14P_T2_SRCC E11 RXCLK_3
IO_L15N_T2_DQS F13 TXD_3_1
IO_L15P_T2_DQS F14 RXD_4_1
IO_L16N_T2 F12 TXD_3_2
IO_L16P_T2 G12 TXD_3_0
IO_L17N_T2 D13 RXD_3_3
IO_L17P_T2 D14 TXCLK_4
IO_L18N_T2 E12 RXD_3_2
IO_L18P_T2 E13 TXCLK_3
IO_L19N_T3_VREF C13 RXDV_3
IO_L19P_T3 C14 RXD_4_2
IO_L20N_T3 B11 RXD_1_0
IO_L20P_T3 B12 RXDV_1
IO_L21N_T3_DQS A14 RXD_3_0
IO_L21P_T3_DQS B14 RXD_3_1
IO_L22N_T3 A10 RXD_1_1
IO_L22P_T3 B10 RXD_1_2
IO_L23N_T3 A15 RXDV_4
IO_L23P_T3 B15 RXD_4_0
IO_L24N_T3 A12 RXDV_2
IO_L24P_T3 A13 RXD_2_0
XC7K325T-1FFG676
IC19D
VCC3V3
PHY3_INT_K15
PHY4_INT_M16
IO_0
IO_25
BANK 15
IO_L1N_T0_AD0N B16 U1-PKTEND
IO_L1P_T0_AD0P C16 U1-FD3
IO_L2N_T0_AD8N A19 U1-FD4
IO_L2P_T0_AD8P A18 U1-FIFOAD0
IO_L3N_T0_DQS_AD1N A17 U1-INT0#
IO_L3P_T0_DQS_AD1P B17 U1-FLAGC
IO_L4N_T0_AD9N B19 U1-FD0
IO_L4P_T0_AD9P C19 U1-FD1
IO_L5N_T0_AD2N C18 U1-FD7
IO_L5P_T0_AD2P C17 U1-FLAGB
IO_L6N_T0_VREF D16 U1-FD2
IO_L6P_T0 D15 U1-FIFOAD1
IO_L7N_T1_AD10N G16 U1-FLAGA
IO_L7P_T1_AD10P H16 U1-SLWR
IO_L8N_T1_AD3N F15 U1-SLRD
IO_L8P_T1_AD3P G15 U1-SLOE
IO_L9N_T1_DQS_AD11N J16 U1-FD6
IO_L9P_T1_DQS_AD11P J15 U1-SLCS
IO_L10N_T1_AD4N E16 U1-FD5
IO_L10P_T1_AD4P E15 JB2
IO_L11N_T1_SRCC_AD12N F18 JB10
IO_L11P_T1_SRCC_AD12P G17 U1-IFCLK
IO_L12N_T1_MRCC_AD5N E17 LED0
IO_L12P_T1_MRCC_AD5P F17 LED2
IO_L13N_T2_MRCC D18 PHY1_RST
IO_L13P_T2_MRCC E18 BTN1
IO_L14N_T2_SRCC H18 JB3
IO_L14P_T2_SRCC H17 JB7
IO_L15N_T2_DQS_ADV_B D20 BPI_ADV
IO_L15P_T2_DQS D19 JA1
IO_L16N_T2_A27 F20 JB1
IO_L16P_T2_A28 G19 JB4
IO_L17N_T2_A25 E20 BPI_A25
IO_L17P_T2_A26 F19 JA7
IO_L18N_T2_A23 G20 BPI_A23
IO_L18P_T2_A24 H19 BPI_A24
IO_L19N_T3_A21_VREF J20 BPI_A21
IO_L19P_T3_A22 K20 BPI_A22
IO_L20N_T3_A19 J19 BPI_A19
IO_L20P_T3_A20 J18 BPI_A20
IO_L21N_T3_DQS_A18 L20 BPI_A18
IO_L21P_T3_DQS L19 JB9
IO_L22N_T3_A16 K17 BPI_A16
IO_L22P_T3_A17 K16 BPI_A17
IO_L23N_T3_FWE_B L18 BPI_WE
IO_L23P_T3_FOE_B M17 BPI_OE
IO_L24N_T3_RS0 K18 PCIe-WAKE
IO_L24P_T3_RS1 L17 PCIe-PERSTN
XC7K325T-1FFG676
IC19C
VCC3V3
PHY3_RST K21
PHY4_RST L23
IO_0
IO_25
BANK 14
IO_L2N_T0_D03 A22 BPI_D03
IO_L2P_T0_D02 B22 BPI_D02
IO_L4N_T0_D05 A24 BPI_D05
IO_L4P_T0_D04 A23 BPI_D04
IO_L5N_T0_D07 C26 BPI_D07
IO_L5P_T0_D06 D26 BPI_D06
IO_L6N_T0_D08_VREF C24 BPI_D08
IO_L7N_T1_D10 C22 BPI_D10
IO_L7P_T1_D09 D21 BPI_D09
IO_L8N_T1_D12 A20 BPI_D12
IO_L8P_T1_D11 B20 BPI_D11
IO_L9N_T1_DQS_D13 E22 BPI_D13
IO_L9P_T1_DQS E21 JA10
IO_L10N_T1_D15 B21 BPI_D15
IO_L10P_T1_D14 C21 BPI_D14
IO_L11N_T1_SRCC D24 JA9
IO_L11P_T1_SRCC D23 SMDAT
IO_L12N_T1_MRCC E23 JA2
IO_L12P_T1_MRCC F22 SMCLK
IO_L13N_T2_MRCC F23 JA4
IO_L13P_T2_MRCC G22 JA8
IO_L14N_T2_SRCC F24 PIC_ADEPT_SDA
IO_L14P_T2_SRCC G24 PIC_ADEPT_SCL
IO_L16N_T2_A15_D31 G26 BPI_A15
IO_L17N_T2_A13_D29 E26 BPI_A13
IO_L17P_T2_A14_D30 F25 BPI_A14
IO_L18N_T2_A11_D27 H26 BPI_A11
IO_L18P_T2_A12_D28 J26 BPI_A12
IO_L19N_T3_A09_D25_VREF G21 BPI_A09
IO_L19P_T3_A10_D26 H21 BPI_A10
IO_L20N_T3_A07_D23 H24 BPI_A07
IO_L20P_T3_A08_D24 H23 BPI_A08
IO_L21N_T3_DQS_A06_D22 H22 BPI_A06
IO_L21P_T3_DQS J21 JB8
IO_L22N_T3_A04_D20 J25 BPI_A04
IO_L22P_T3_A05_D21 J24 BPI_A05
IO_L23N_T3_A02_D18 K22 BPI_A02
IO_L23P_T3_A03_D19 L22 BPI_A03
IO_L24N_T3_A00_D16 L23 BPI_A00
IO_L24P_T3_A01_D17 K23 BPI_A01
XC7K325T-1FFG676
VCC3V3
C101
0.1uF
GND
IC20
DSC1123AE1-200.0000T
VCC3V3_1
ST/OE
VDD
GND
OUT+
OUT-
SYSTEM_CLK_P
SYSTEM_CLK_N
GND
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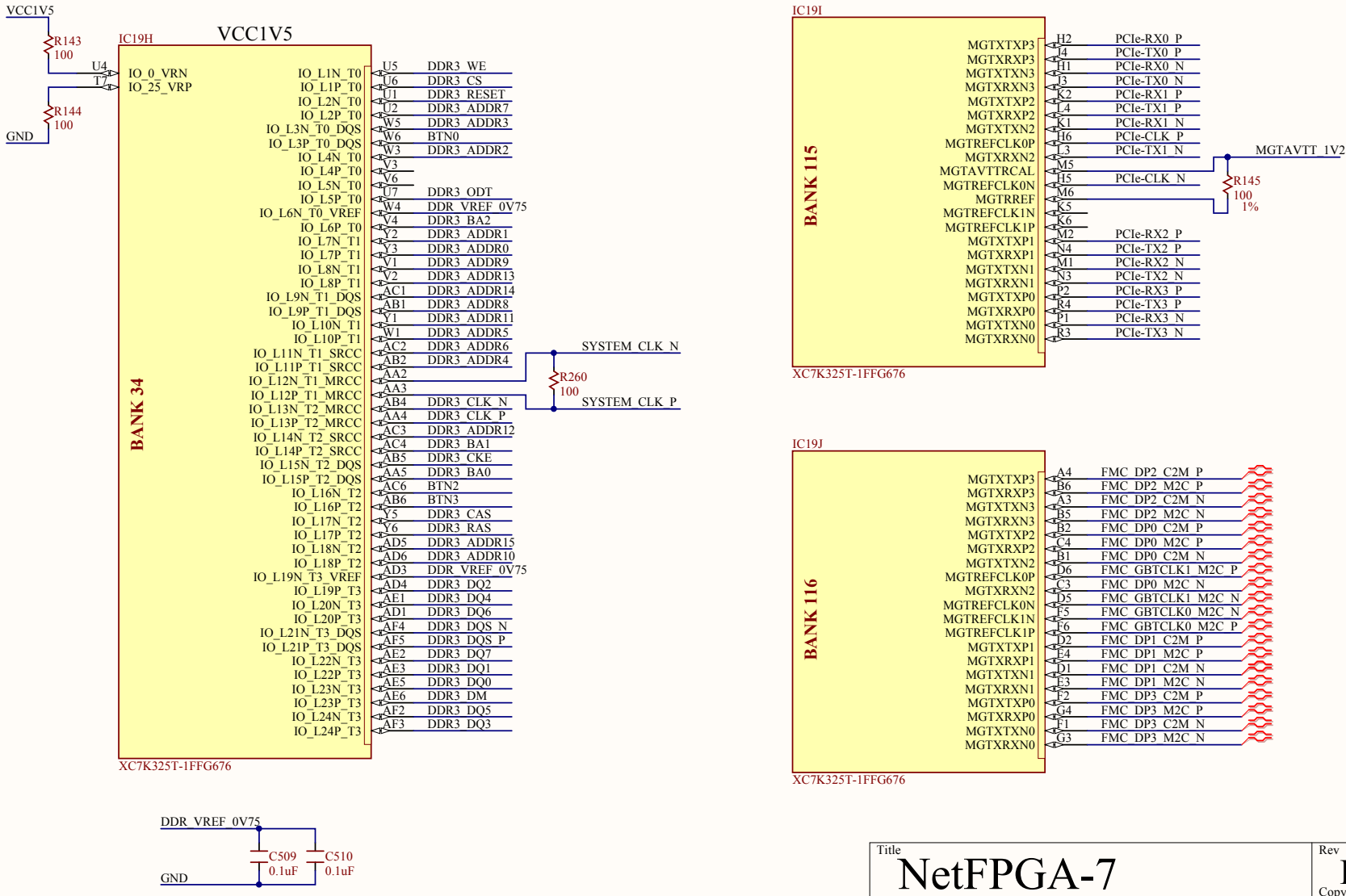
VCC1V5
R143
100
U4
T7
IO_0_VRN
IO_25_VRP
R144
100
GND
IC19H
VCC1V5
BANK 34
IO_L1N_T0 U5 DDR3_WE
IO_L1P_T0 V6 DDR3_CS
IO_L2N_T0 U1 DDR3_RESET
IO_L2P_T0 U2 DDR3_ADDR7
IO_L3N_T0_DQS W5 DDR3_ADDR3
IO_L3P_T0_DQS W6 BTN0
IO_L4N_T0 W3 DDR3_ADDR2
IO_L4P_T0 V3
IO_L5N_T0 Y6
IO_L5P_T0 J7 DDR3_ODT
IO_L6N_T0_VREF W4 DDR_VREF_0V75
IO_L6P_T0 V4 DDR3_BA2
IO_L7N_T1 Y2 DDR3_ADDR1
IO_L7P_T1 Y3 DDR3_ADDR0
IO_L8N_T1 V1 DDR3_ADDR9
IO_L8P_T1 V2 DDR3_ADDR13
IO_L9N_T1_DQS AC1 DDR3_ADDR14
IO_L9P_T1_DQS AB1 DDR3_ADDR8
IO_L10N_T1 Y1 DDR3_ADDR11
IO_L10P_T1 W1 DDR3_ADDR5
IO_L11N_T1_SRCC AC2 DDR3_ADDR6
IO_L11P_T1_SRCC AB2 DDR3_ADDR4
IO_L12N_T1_MRCC AA2
IO_L12P_T1_MRCC AA3
IO_L13N_T2_MRCC AB4 DDR3_CLK_N
IO_L13P_T2_MRCC AA4 DDR3_CLK_P
IO_L14N_T2_SRCC AC3 DDR3_ADDR12
IO_L14P_T2_SRCC AC4 DDR3_BA1
IO_L15N_T2_DQS AB5 DDR3_CKE
IO_L15P_T2_DQS AA5 DDR3_BA0
IO_L16N_T2 AC6 BTN2
IO_L16P_T2 AB6 BTN3
IO_L17N_T2 Y5 DDR3_CAS
IO_L17P_T2 Y6 DDR3_RAS
IO_L18N_T2 AD5 DDR3_ADDR15
IO_L18P_T2 AD6 DDR3_ADDR10
IO_L19N_T3_VREF AD3 DDR_VREF_0V75
IO_L19P_T3 AD4 DDR3_DQ2
IO_L20N_T3 AE1 DDR3_DQ4
IO_L20P_T3 AD1 DDR3_DQ6
IO_L21N_T3_DQS AF4 DDR3_DQS_N
IO_L21P_T3_DQS AF5 DDR3_DQS_P
IO_L22N_T3 AE2 DDR3_DQ7
IO_L22P_T3 AE3 DDR3_DQ1
IO_L23N_T3 AE5 DDR3_DQ0
IO_L23P_T3 AE6 DDR3_DM
IO_L24N_T3 AF2 DDR3_DQ5
IO_L24P_T3 AF3 DDR3_DQ3
XC7K325T-1FFG676
SYSTEM_CLK_N
R260
100
SYSTEM_CLK_P
DDR_VREF_0V75
C509
0.1uF
C510
0.1uF
GND
IC19I
BANK 115
MGTXTXP3 H2 PCIe-RX0_P
MGTXRXP3 I4 PCIe-TX0_P
MGTXTXN3 H1 PCIe-RX0_N
MGTXRXN3 J3 PCIe-TX0_N
MGTXTXP2 K2 PCIe-RX1_P
MGTXRXP2 L4 PCIe-TX1_P
MGTXTXN2 K1 PCIe-RX1_N
MGTREFCLK0P H6 PCIe-CLK_P
MGTXRXN2 L3 PCIe-TX1_N
MGTAVTTRCAL M5
MGTREFCLK0N H5 PCIe-CLK_N
MGTRREF M6
MGTREFCLK1N K5
MGTREFCLK1P K6
MGTXTXP1 M2 PCIe-RX2_P
MGTXRXP1 N4 PCIe-TX2_P
MGTXTXN1 M1 PCIe-RX2_N
MGTXRXN1 N3 PCIe-TX2_N
MGTXTXP0 P2 PCIe-RX3_P
MGTXRXP0 R4 PCIe-TX3_P
MGTXTXN0 P1 PCIe-RX3_N
MGTXRXN0 R3 PCIe-TX3_N
MGTAVTT_1V2
R145
100
1%
XC7K325T-1FFG676
IC19J
BANK 116
MGTXTXP3 A4 FMC_DP2_C2M_P
MGTXRXP3 B6 FMC_DP2_M2C_P
MGTXTXN3 A3 FMC_DP2_C2M_N
MGTXRXN3 B5 FMC_DP2_M2C_N
MGTXTXP2 B2 FMC_DP0_C2M_P
MGTXRXP2 C4 FMC_DP0_M2C_P
MGTXTXN2 B1 FMC_DP0_C2M_N
MGTREFCLK0P D6 FMC_GBTCLK1_M2C_P
MGTXRXN2 C3 FMC_DP0_M2C_N
MGTREFCLK0N D5 FMC_GBTCLK1_M2C_N
MGTREFCLK1N F5 FMC_GBTCLK0_M2C_N
MGTREFCLK1P F6 FMC_GBTCLK0_M2C_P
MGTXTXP1 D2 FMC_DP1_C2M_P
MGTXRXP1 E4 FMC_DP1_M2C_P
MGTXTXN1 D1 FMC_DP1_C2M_N
MGTXRXN1 E3 FMC_DP1_M2C_N
MGTXTXP0 F2 FMC_DP3_C2M_P
MGTXRXP0 G4 FMC_DP3_M2C_P
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MGTXRXN0 G3 FMC_DP3_M2C_N
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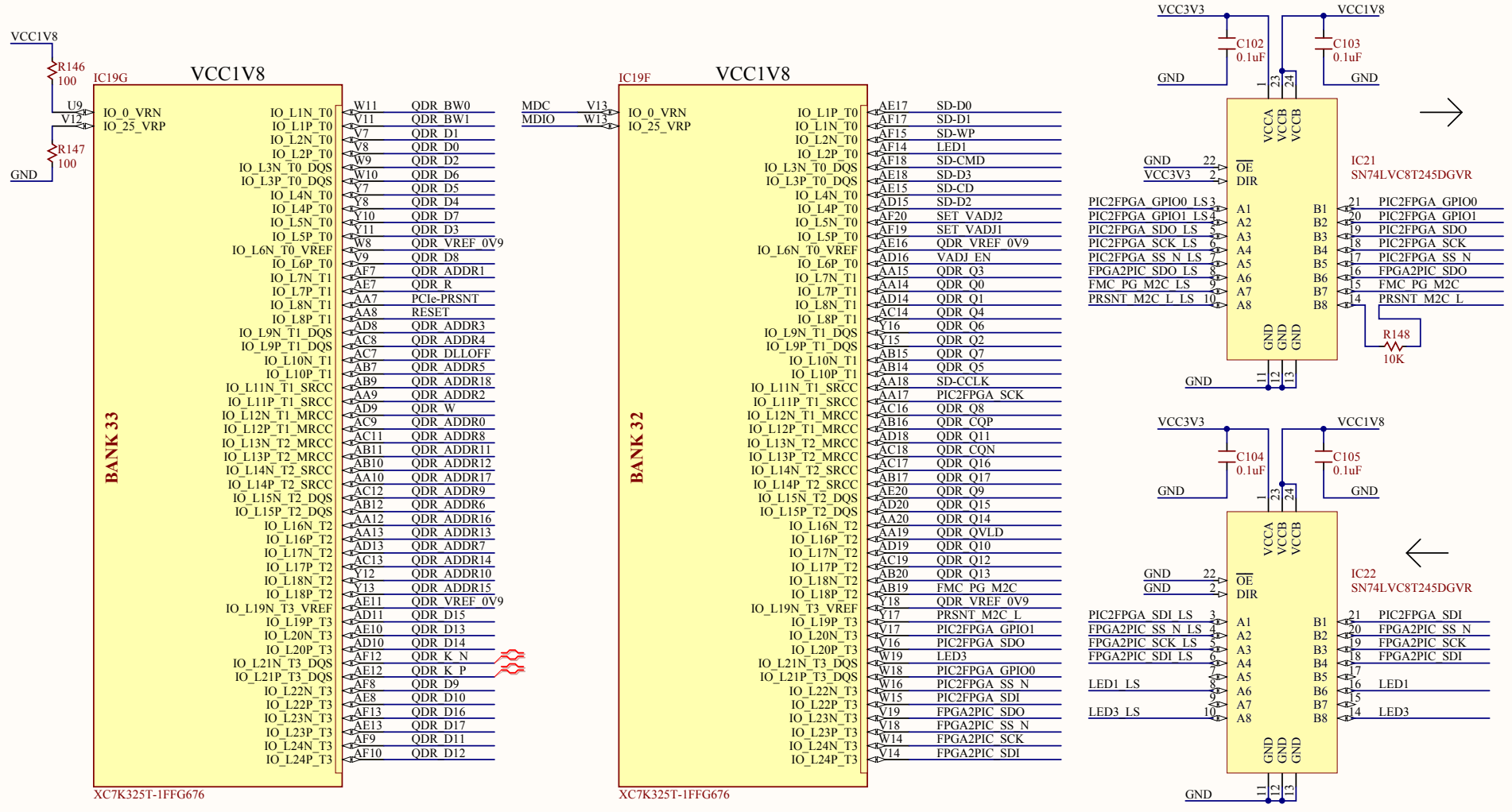
VCC1V8
R146
100
U9
V12
IO_0_VRN
IO_25_VRP
R147
100
GND
IC19G
VCC1V8
BANK 33
XC7K325T-1FFG676
IO_L1N_T0 W11 QDR_BW0
IO_L1P_T0 V11 QDR_BW1
IO_L2N_T0 V7 QDR_D1
IO_L2P_T0 V8 QDR_D0
IO_L3N_T0_DQS W9 QDR_D2
IO_L3P_T0_DQS W10 QDR_D6
IO_L4N_T0 Y7 QDR_D5
IO_L4P_T0 Y8 QDR_D4
IO_L5N_T0 Y10 QDR_D7
IO_L5P_T0 Y11 QDR_D3
IO_L6N_T0_VREF W8 QDR_VREF_0V9
IO_L6P_T0 V9 QDR_D8
IO_L7N_T1 AF7 QDR_ADDR1
IO_L7P_T1 AE7 QDR_R
IO_L8N_T1 AA7 PCIe-PRSNT
IO_L8P_T1 AA8 RESET
IO_L9N_T1_DQS AD8 QDR_ADDR3
IO_L9P_T1_DQS AC8 QDR_ADDR4
IO_L10N_T1 AC7 QDR_DLLOFF
IO_L10P_T1 AB7 QDR_ADDR5
IO_L11N_T1_SRCC AB9 QDR_ADDR18
IO_L11P_T1_SRCC AA9 QDR_ADDR2
IO_L12N_T1_MRCC AD9 QDR_W
IO_L12P_T1_MRCC AC9 QDR_ADDR0
IO_L13N_T2_MRCC AC11 QDR_ADDR8
IO_L13P_T2_MRCC AB11 QDR_ADDR11
IO_L14N_T2_SRCC AB10 QDR_ADDR12
IO_L14P_T2_SRCC AA10 QDR_ADDR17
IO_L15N_T2_DQS AC12 QDR_ADDR9
IO_L15P_T2_DQS AB12 QDR_ADDR6
IO_L16N_T2 AA12 QDR_ADDR16
IO_L16P_T2 AA13 QDR_ADDR13
IO_L17N_T2 AD13 QDR_ADDR7
IO_L17P_T2 AC13 QDR_ADDR14
IO_L18N_T2 Y12 QDR_ADDR10
IO_L18P_T2 Y13 QDR_ADDR15
IO_L19N_T3_VREF AE11 QDR_VREF_0V9
IO_L19P_T3 AD11 QDR_D15
IO_L20N_T3 AE10 QDR_D13
IO_L20P_T3 AD10 QDR_D14
IO_L21N_T3_DQS AF12 QDR_K_N
IO_L21P_T3_DQS AE12 QDR_K_P
IO_L22N_T3 AF8 QDR_D9
IO_L22P_T3 AE8 QDR_D10
IO_L23N_T3 AF13 QDR_D16
IO_L23P_T3 AE13 QDR_D17
IO_L24N_T3 AF9 QDR_D11
IO_L24P_T3 AF10 QDR_D12
MDC V13
MDIO W13
IC19F
VCC1V8
BANK 32
XC7K325T-1FFG676
IO_0_VRN
IO_25_VRP
IO_L1P_T0 AE17 SD-D0
IO_L1N_T0 AF17 SD-D1
IO_L2N_T0 AF15 SD-WP
IO_L2P_T0 AF14 LED1
IO_L3N_T0_DQS AF18 SD-CMD
IO_L3P_T0_DQS AE18 SD-D3
IO_L4N_T0 AE15 SD-CD
IO_L4P_T0 AD15 SD-D2
IO_L5N_T0 AF20 SET_VADJ2
IO_L5P_T0 AF19 SET_VADJ1
IO_L6N_T0_VREF AE16 QDR_VREF_0V9
IO_L6P_T0 AD16 VADJ_EN
IO_L7N_T1 AA15 QDR_Q3
IO_L7P_T1 AA14 QDR_Q0
IO_L8N_T1 AD14 QDR_Q1
IO_L8P_T1 AC14 QDR_Q4
IO_L9N_T1_DQS Y16 QDR_Q6
IO_L9P_T1_DQS Y15 QDR_Q2
IO_L10N_T1 AB15 QDR_Q7
IO_L10P_T1 AB14 QDR_Q5
IO_L11N_T1_SRCC AA18 SD-CCLK
IO_L11P_T1_SRCC AA17 PIC2FPGA_SCK
IO_L12N_T1_MRCC AC16 QDR_Q8
IO_L12P_T1_MRCC AB16 QDR_CQP
IO_L13N_T2_MRCC AD18 QDR_Q11
IO_L13P_T2_MRCC AC18 QDR_CQN
IO_L14N_T2_SRCC AC17 QDR_Q16
IO_L14P_T2_SRCC AB17 QDR_Q17
IO_L15N_T2_DQS AE20 QDR_Q9
IO_L15P_T2_DQS AD20 QDR_Q15
IO_L16N_T2 AA20 QDR_Q14
IO_L16P_T2 AA19 QDR_QVLD
IO_L17N_T2 AD19 QDR_Q10
IO_L17P_T2 AC19 QDR_Q12
IO_L18N_T2 AB20 QDR_Q13
IO_L18P_T2 AB19 FMC_PG_M2C
IO_L19N_T3_VREF Y18 QDR_VREF_0V9
IO_L19P_T3 Y17 PRSNT_M2C_L
IO_L20N_T3 V17 PIC2FPGA_GPIO1
IO_L20P_T3 V16 PIC2FPGA_SDO
IO_L21N_T3_DQS W19 LED3
IO_L21P_T3_DQS W18 PIC2FPGA_GPIO0
IO_L22N_T3 W16 PIC2FPGA_SS_N
IO_L22P_T3 W15 PIC2FPGA_SDI
IO_L23N_T3 V19 FPGA2PIC_SDO
IO_L23P_T3 V18 FPGA2PIC_SS_N
IO_L24N_T3 W14 FPGA2PIC_SCK
IO_L24P_T3 V14 FPGA2PIC_SDI
VCC3V3
VCC1V8
C102 0.1uF
C103 0.1uF
GND
VCCA VCCB VCCB
IC21
SN74LVC8T245DGVR
GND 22 OE
VCC3V3 2 DIR
PIC2FPGA_GPIO0_LS 3 A1 B1 21 PIC2FPGA_GPIO0
PIC2FPGA_GPIO1_LS 4 A2 B2 20 PIC2FPGA_GPIO1
PIC2FPGA_SDO_LS 5 A3 B3 19 PIC2FPGA_SDO
PIC2FPGA_SCK_LS 6 A4 B4 8 PIC2FPGA_SCK
PIC2FPGA_SS_N_LS 7 A5 B5 17 PIC2FPGA_SS_N
FPGA2PIC_SDO_LS 8 A6 B6 16 FPGA2PIC_SDO
FMC_PG_M2C_LS 9 A7 B7 15 FMC_PG_M2C
PRSNT_M2C_L_LS 10 A8 B8 14 PRSNT_M2C_L
GND GND GND
R148
10K
C104 0.1uF
C105 0.1uF
IC22
SN74LVC8T245DGVR
PIC2FPGA_SDI_LS 3 A1 B1 21 PIC2FPGA_SDI
FPGA2PIC_SS_N_LS 4 A2 B2 20 FPGA2PIC_SS_N
FPGA2PIC_SCK_LS 5 A3 B3 19 FPGA2PIC_SCK
FPGA2PIC_SDI_LS 6 A4 B4 18 FPGA2PIC_SDI
LED1_LS 8 A5 B5 16 LED1
LED3_LS 10 A6 B6 15 LED3
A7 B7
A8 B8 14
R180
10K
R280
10K
RESET
BTN4
QDR_VREF_0V9
C517 10nF
C518 10nF
C519 10nF
C520 10nF
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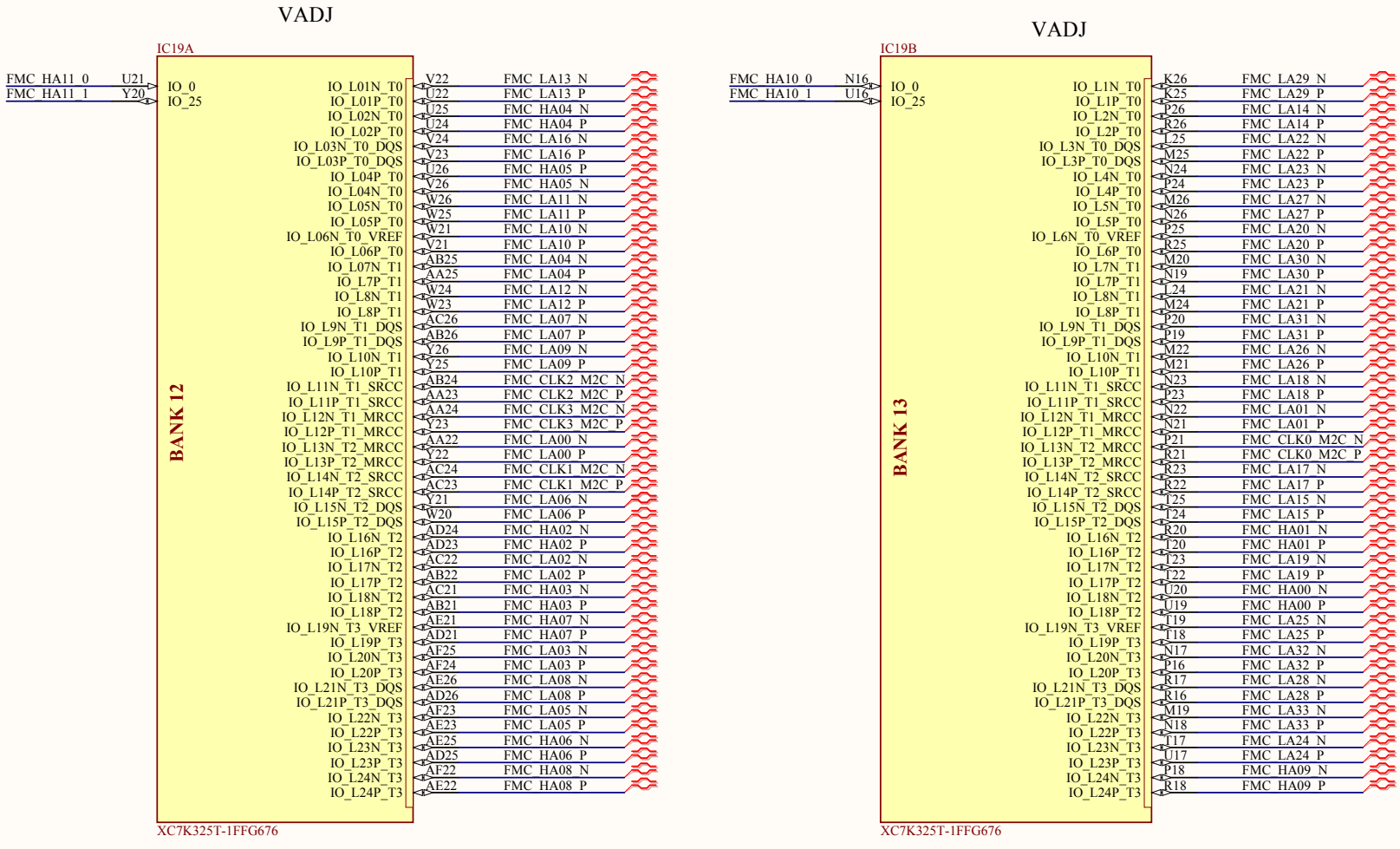
VADJ
IC19A
FMC_HA11_0 U21
FMC_HA11_1 Y20
IO_0
IO_25
BANK 12
IO_L01N_T0 V22 FMC_LA13_N
IO_L01P_T0 U22 FMC_LA13_P
IO_L02N_T0 U25 FMC_HA04_N
IO_L02P_T0 U24 FMC_HA04_P
IO_L03N_T0_DQS V24 FMC_LA16_N
IO_L03P_T0_DQS V23 FMC_LA16_P
IO_L04P_T0 U26 FMC_HA05_P
IO_L04N_T0 V26 FMC_HA05_N
IO_L05N_T0 W26 FMC_LA11_N
IO_L05P_T0 W25 FMC_LA11_P
IO_L06N_T0_VREF W21 FMC_LA10_N
IO_L06P_T0 V21 FMC_LA10_P
IO_L07N_T1 AB25 FMC_LA04_N
IO_L7P_T1 AA25 FMC_LA04_P
IO_L8N_T1 W24 FMC_LA12_N
IO_L8P_T1 W23 FMC_LA12_P
IO_L9N_T1_DQS AC26 FMC_LA07_N
IO_L9P_T1_DQS AB26 FMC_LA07_P
IO_L10N_T1 Y26 FMC_LA09_N
IO_L10P_T1 Y25 FMC_LA09_P
IO_L11N_T1_SRCC AB24 FMC_CLK2_M2C_N
IO_L11P_T1_SRCC AA23 FMC_CLK2_M2C_P
IO_L12N_T1_MRCC AA24 FMC_CLK3_M2C_N
IO_L12P_T1_MRCC Y23 FMC_CLK3_M2C_P
IO_L13N_T2_MRCC AA22 FMC_LA00_N
IO_L13P_T2_MRCC Y22 FMC_LA00_P
IO_L14N_T2_SRCC AC24 FMC_CLK1_M2C_N
IO_L14P_T2_SRCC AC23 FMC_CLK1_M2C_P
IO_L15N_T2_DQS Y21 FMC_LA06_N
IO_L15P_T2_DQS W20 FMC_LA06_P
IO_L16N_T2 AD24 FMC_HA02_N
IO_L16P_T2 AD23 FMC_HA02_P
IO_L17N_T2 AC22 FMC_LA02_N
IO_L17P_T2 AB22 FMC_LA02_P
IO_L18N_T2 AC21 FMC_HA03_N
IO_L18P_T2 AB21 FMC_HA03_P
IO_L19N_T3_VREF AE21 FMC_HA07_N
IO_L19P_T3 AD21 FMC_HA07_P
IO_L20N_T3 AF25 FMC_LA03_N
IO_L20P_T3 AF24 FMC_LA03_P
IO_L21N_T3_DQS AE26 FMC_LA08_N
IO_L21P_T3_DQS AD26 FMC_LA08_P
IO_L22N_T3 AF23 FMC_LA05_N
IO_L22P_T3 AE23 FMC_LA05_P
IO_L23N_T3 AE25 FMC_HA06_N
IO_L23P_T3 AD25 FMC_HA06_P
IO_L24N_T3 AF22 FMC_HA08_N
IO_L24P_T3 AE22 FMC_HA08_P
XC7K325T-1FFG676
VADJ
IC19B
FMC_HA10_0 N16
FMC_HA10_1 U16
IO_0
IO_25
BANK 13
IO_L1N_T0 K26 FMC_LA29_N
IO_L1P_T0 K25 FMC_LA29_P
IO_L2N_T0 P26 FMC_LA14_N
IO_L2P_T0 R26 FMC_LA14_P
IO_L3N_T0_DQS L25 FMC_LA22_N
IO_L3P_T0_DQS M25 FMC_LA22_P
IO_L4N_T0 N24 FMC_LA23_N
IO_L4P_T0 P24 FMC_LA23_P
IO_L5N_T0 M26 FMC_LA27_N
IO_L5P_T0 N26 FMC_LA27_P
IO_L6N_T0_VREF P25 FMC_LA20_N
IO_L6P_T0 R25 FMC_LA20_P
IO_L7N_T1 M20 FMC_LA30_N
IO_L7P_T1 N19 FMC_LA30_P
IO_L8N_T1 L24 FMC_LA21_N
IO_L8P_T1 M24 FMC_LA21_P
IO_L9N_T1_DQS P20 FMC_LA31_N
IO_L9P_T1_DQS P19 FMC_LA31_P
IO_L10N_T1 M22 FMC_LA26_N
IO_L10P_T1 M21 FMC_LA26_P
IO_L11N_T1_SRCC N23 FMC_LA18_N
IO_L11P_T1_SRCC P23 FMC_LA18_P
IO_L12N_T1_MRCC N22 FMC_LA01_N
IO_L12P_T1_MRCC N21 FMC_LA01_P
IO_L13N_T2_MRCC P21 FMC_CLK0_M2C_N
IO_L13P_T2_MRCC R21 FMC_CLK0_M2C_P
IO_L14N_T2_SRCC R23 FMC_LA17_N
IO_L14P_T2_SRCC R22 FMC_LA17_P
IO_L15N_T2_DQS T25 FMC_LA15_N
IO_L15P_T2_DQS T24 FMC_LA15_P
IO_L16N_T2 R20 FMC_HA01_N
IO_L16P_T2 T20 FMC_HA01_P
IO_L17N_T2 T23 FMC_LA19_N
IO_L17P_T2 T22 FMC_LA19_P
IO_L18N_T2 U20 FMC_HA00_N
IO_L18P_T2 U19 FMC_HA00_P
IO_L19N_T3_VREF T19 FMC_LA25_N
IO_L19P_T3 T18 FMC_LA25_P
IO_L20N_T3 N17 FMC_LA32_N
IO_L20P_T3 P16 FMC_LA32_P
IO_L21N_T3_DQS R17 FMC_LA28_N
IO_L21P_T3_DQS R16 FMC_LA28_P
IO_L22N_T3 M19 FMC_LA33_N
IO_L22P_T3 N18 FMC_LA33_P
IO_L23N_T3 T17 FMC_LA24_N
IO_L23P_T3 U17 FMC_LA24_P
IO_L24N_T3 P18 FMC_HA09_N
IO_L24P_T3 R18 FMC_HA09_P
XC7K325T-1FFG676
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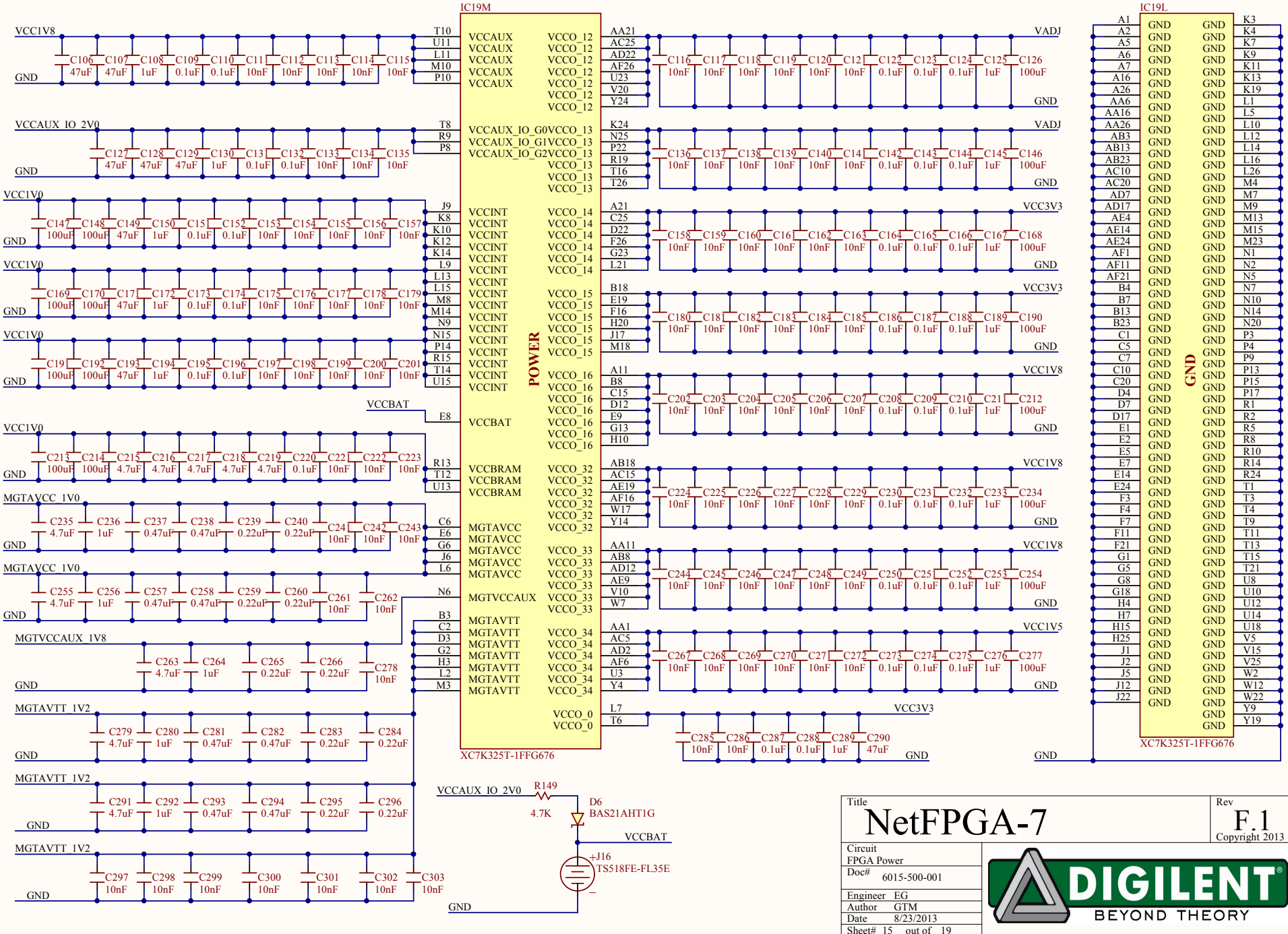
IC19M
POWER
XC7K325T-1FFG676
IC19L
GND
XC7K325T-1FFG676
VCC1V8
VCCAUX_IO_2V0
VCC1V0
VCCBAT
MGTAVCC_1V0
MGTVCCAUX_1V8
MGTAVTT_1V2
VADJ
VCC3V3
VCC1V8
VCC1V5
R149
4.7K
D6
BAS21AHT1G
+J16
TS518FE-FL35E
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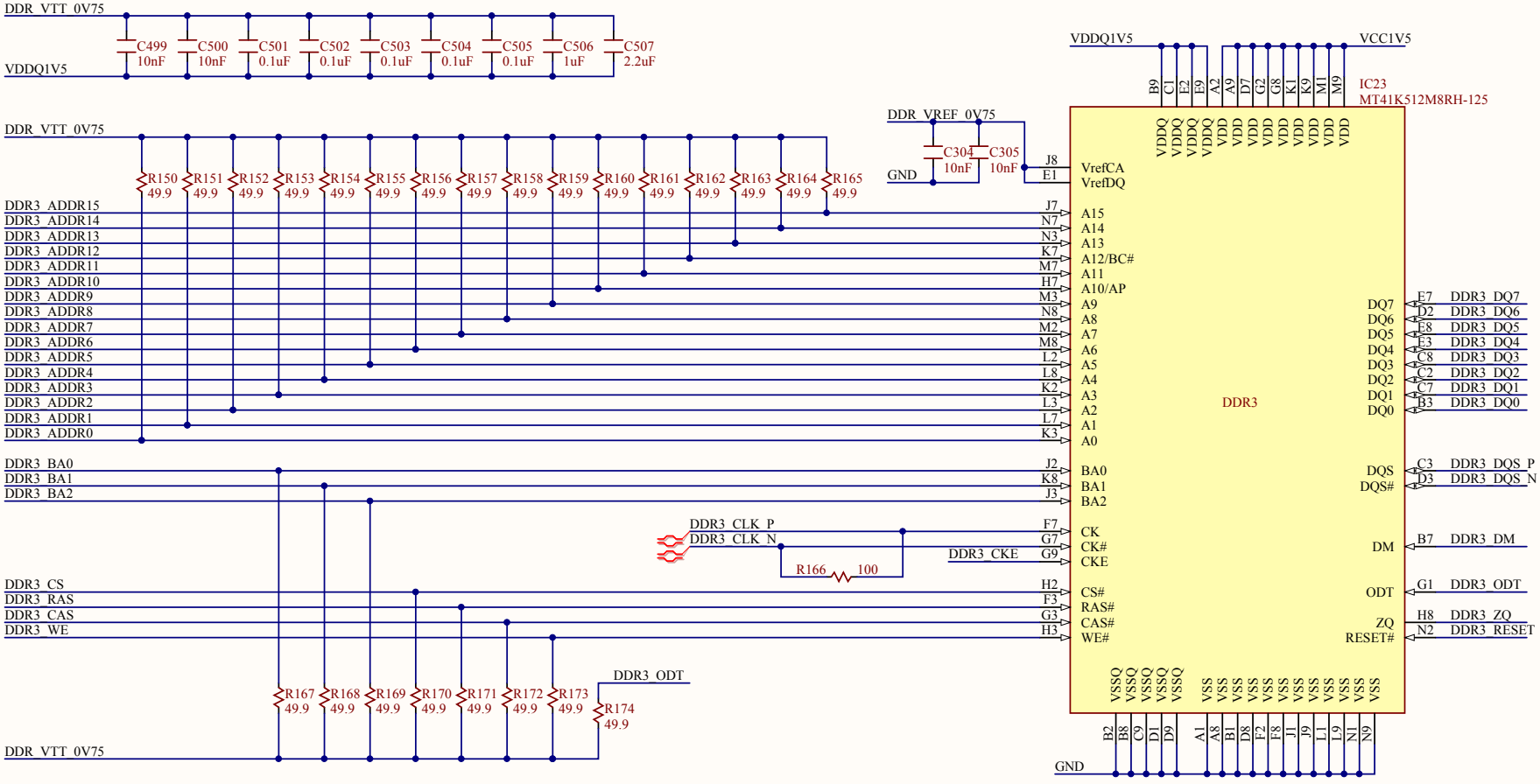

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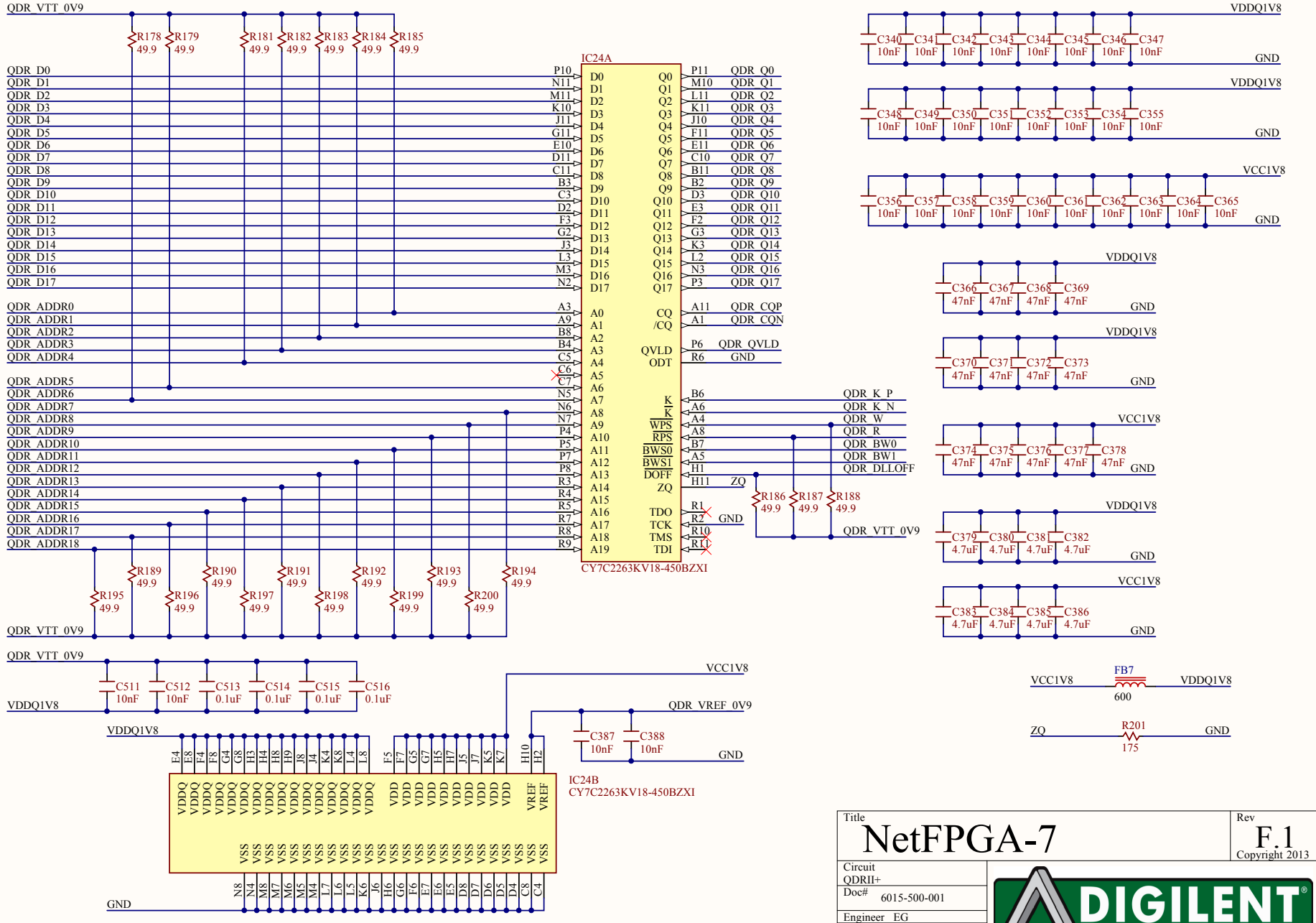

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Circuit	QDRII+
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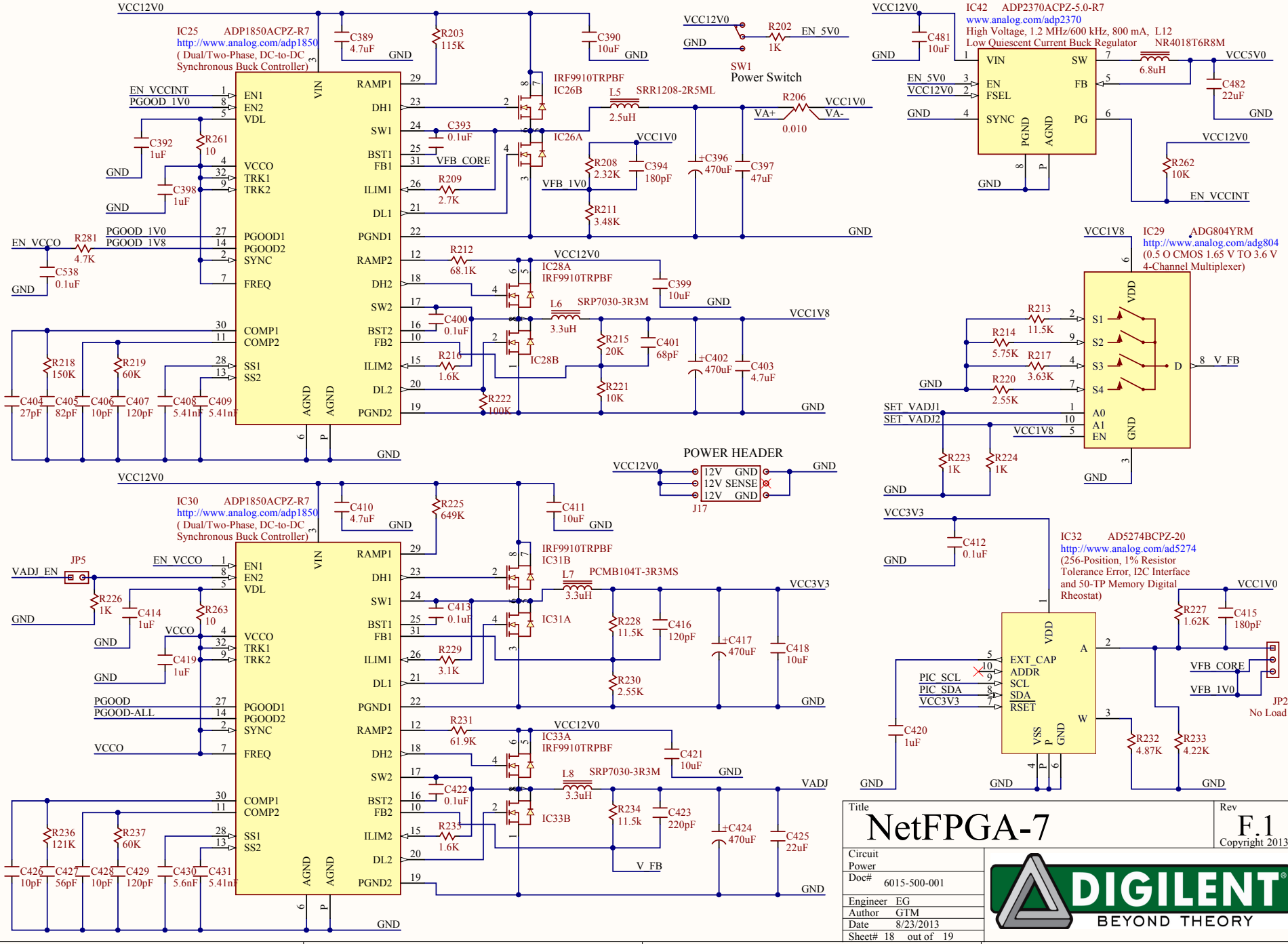
IC25 ADP1850ACPZ-R7
http://www.analog.com/adp1850
(Dual/Two-Phase, DC-to-DC
Synchronous Buck Controller)
IC30 ADP1850ACPZ-R7
http://www.analog.com/adp1850
(Dual/Two-Phase, DC-to-DC
Synchronous Buck Controller)
IC42 ADP2370ACPZ-5.0-R7
www.analog.com/adp2370
High Voltage, 1.2 MHz/600 kHz, 800 mA, L12
Low Quiescent Current Buck Regulator NR4018T6R8M
IC29 ADG804YRM
http://www.analog.com/adg804
(0.5 O CMOS 1.65 V TO 3.6 V
4-Channel Multiplexer)
IC32 AD5274BCPZ-20
http://www.analog.com/ad5274
(256-Position, 1% Resistor
Tolerance Error, I2C Interface
and 50-TP Memory Digital
Rheostat)
SW1
Power Switch
POWER HEADER
J17
JP5
JP2
No Load
VCC12V0
VCC1V0
VCC1V8
VCC3V3
VCC5V0
VADJ
GND
VIN
VCCO
VFB_CORE
VFB_1V0
V_FB
EN_VCCINT
EN_VCCO
EN_5V0
PGOOD_1V0
PGOOD_1V8
PGOOD
PGOOD-ALL
VADJ_EN
SET_VADJ1
SET_VADJ2
PIC_SCL
PIC_SDA
IRF9910TRPBF
IC26A
IC26B
IC28A
IC28B
IC31A
IC31B
IC33A
IC33B
SRR1208-2R5ML
SRP7030-3R3M
PCMB104T-3R3MS
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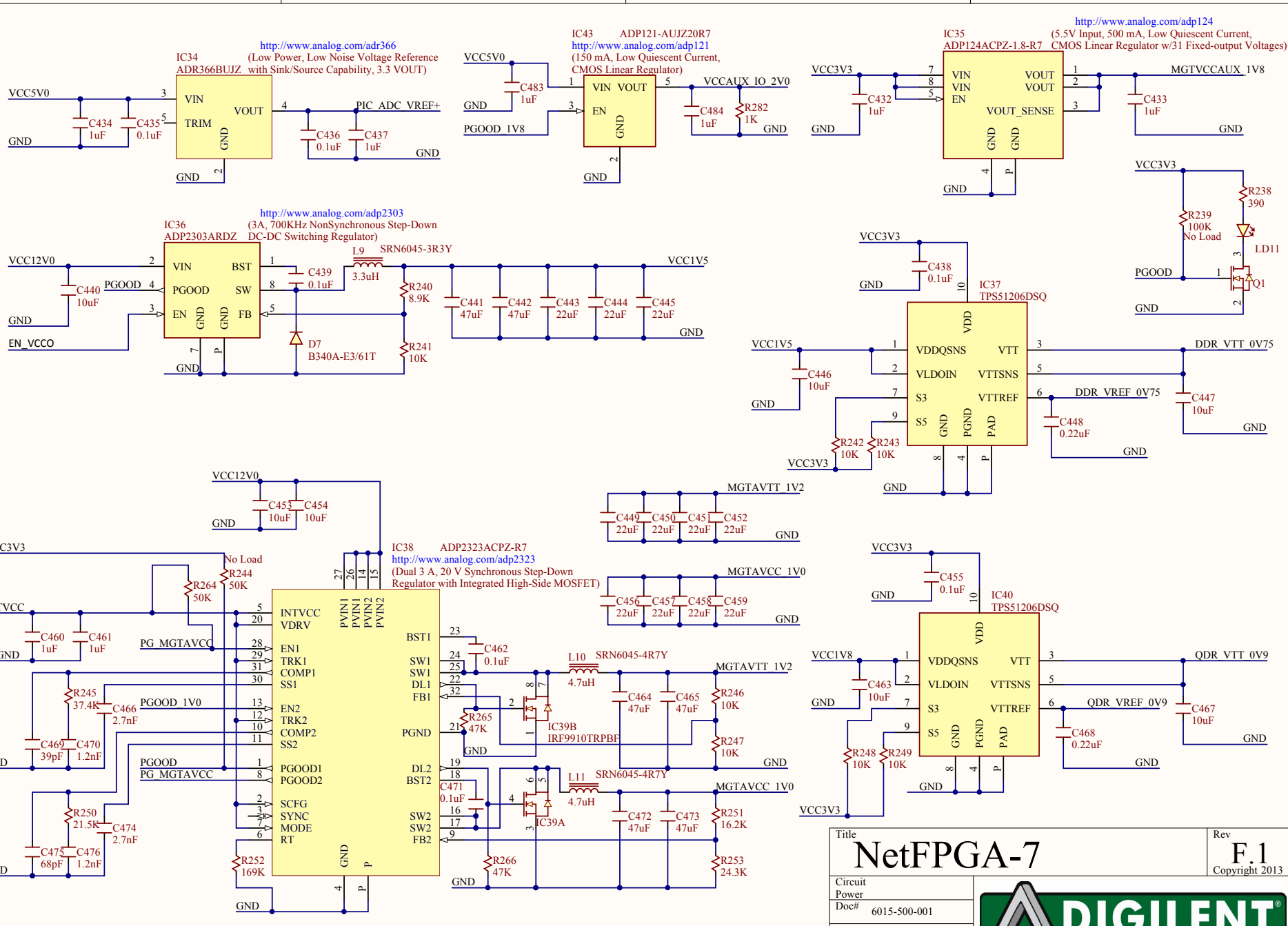
IC34
ADR366BUJZ
http://www.analog.com/adr366
(Low Power, Low Noise Voltage Reference with Sink/Source Capability, 3.3 VOUT)
VCC5V0
GND
C434 1uF
C435 0.1uF
VIN
TRIM
VOUT
GND
PIC_ADC_VREF+
C436 0.1uF
C437 1uF
IC43
ADP121-AUJZ20R7
http://www.analog.com/adp121
(150 mA, Low Quiescent Current, CMOS Linear Regulator)
VCC5V0
C483 1uF
PGOOD_1V8
VIN VOUT
EN
GND
VCCAUX_IO_2V0
C484 1uF
R282 1K
IC35
ADP124ACPZ-1.8-R7
http://www.analog.com/adp124
(5.5V Input, 500 mA, Low Quiescent Current, CMOS Linear Regulator w/31 Fixed-output Voltages)
VCC3V3
C432 1uF
VIN
VIN
EN
VOUT
VOUT
VOUT_SENSE
GND
MGTVCCAUX_1V8
C433 1uF
IC36
ADP2303ARDZ
http://www.analog.com/adp2303
(3A, 700KHz NonSynchronous Step-Down DC-DC Switching Regulator)
VCC12V0
C440 10uF
PGOOD
EN_VCCO
VIN
PGOOD
EN
BST
SW
GND
FB
L9
SRN6045-3R3Y
3.3uH
C439 0.1uF
R240 8.9K
R241 10K
D7
B340A-E3/61T
C441 47uF
C442 47uF
C443 22uF
C444 22uF
C445 22uF
VCC1V5
VCC3V3
R238 390
R239 100K No Load
LD11
PGOOD
Q1
IC37
TPS51206DSQ
C438 0.1uF
VCC1V5
C446 10uF
VDD
VDDQSNS
VLDOIN
S3
S5
VTT
VTTSNS
VTTREF
GND
PGND
PAD
DDR_VTT_0V75
DDR_VREF_0V75
C447 10uF
C448 0.22uF
R242 10K
R243 10K
VCC12V0
C453 10uF
C454 10uF
IC38
ADP2323ACPZ-R7
http://www.analog.com/adp2323
(Dual 3 A, 20 V Synchronous Step-Down Regulator with Integrated High-Side MOSFET)
VCC3V3
No Load
R244 50K
R264 50K
INTVCC
C460 1uF
C461 1uF
PG_MGTAVCC
PGOOD_1V0
PGOOD
PG_MGTAVCC
R245 37.4K
C466 2.7nF
C469 39pF
C470 1.2nF
R250 21.5K
C474 2.7nF
C475 68pF
C476 1.2nF
R252 169K
INTVCC
VDRV
EN1
TRK1
COMP1
SS1
EN2
TRK2
COMP2
SS2
PGOOD1
PGOOD2
SCFG
SYNC
MODE
RT
PVIN1
PVIN1
PVIN2
PVIN2
BST1
SW1
SW1
DL1
FB1
PGND
DL2
BST2
SW2
SW2
FB2
C462 0.1uF
L10
SRN6045-4R7Y
4.7uH
IC39B
IRF9910TRPBF
R265 47K
C464 47uF
C465 47uF
R246 10K
R247 10K
MGTAVTT_1V2
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L11
SRN6045-4R7Y
4.7uH
IC39A
C472 47uF
C473 47uF
R251 16.2K
R253 24.3K
MGTAVCC_1V0
R266 47K
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C449 22uF
C450 22uF
C451 22uF
C452 22uF
MGTAVCC_1V0
C456 22uF
C457 22uF
C458 22uF
C459 22uF
VCC3V3
C455 0.1uF
IC40
TPS51206DSQ
VCC1V8
C463 10uF
R248 10K
R249 10K
QDR_VTT_0V9
QDR_VREF_0V9
C467 10uF
C468 0.22uF
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