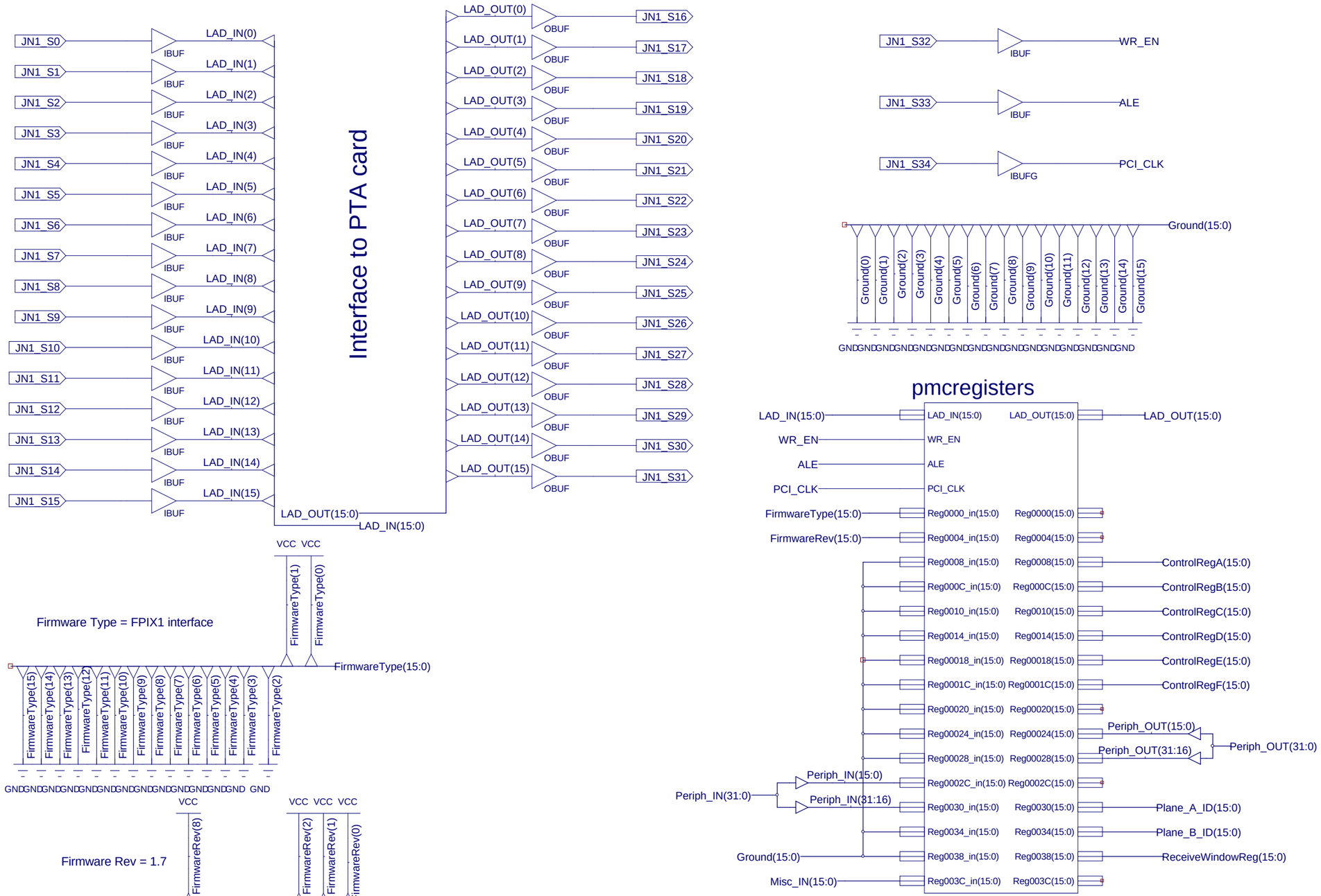
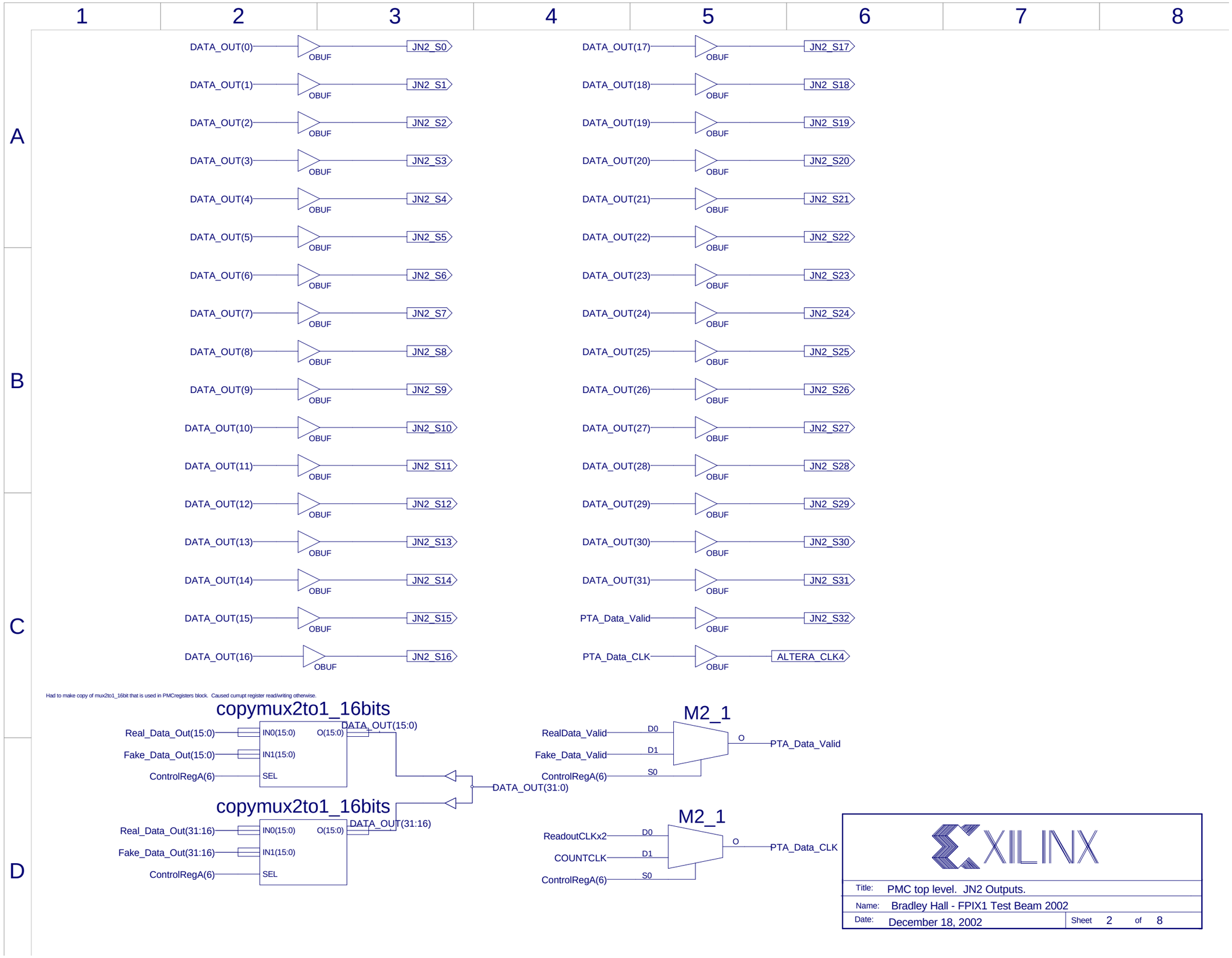
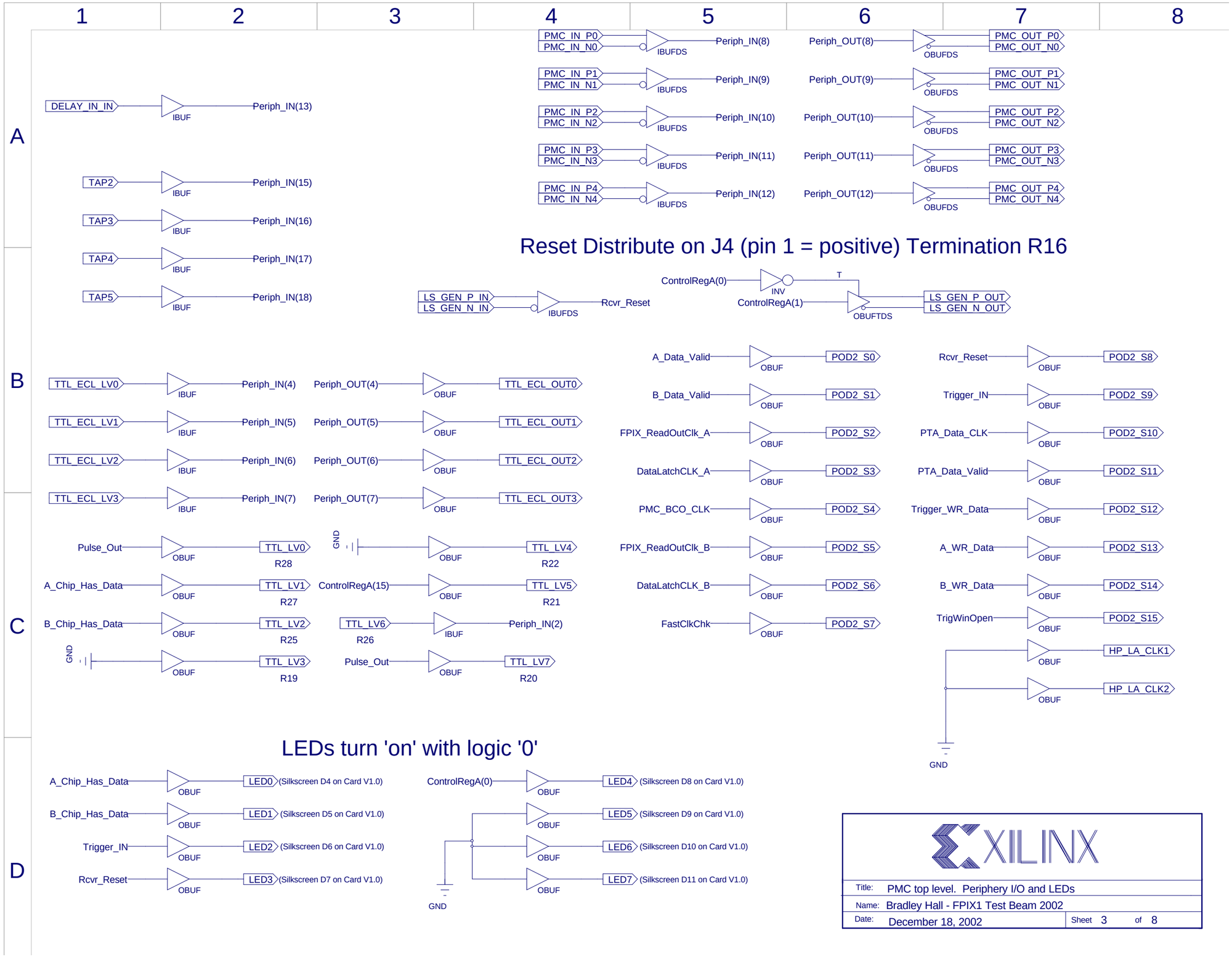
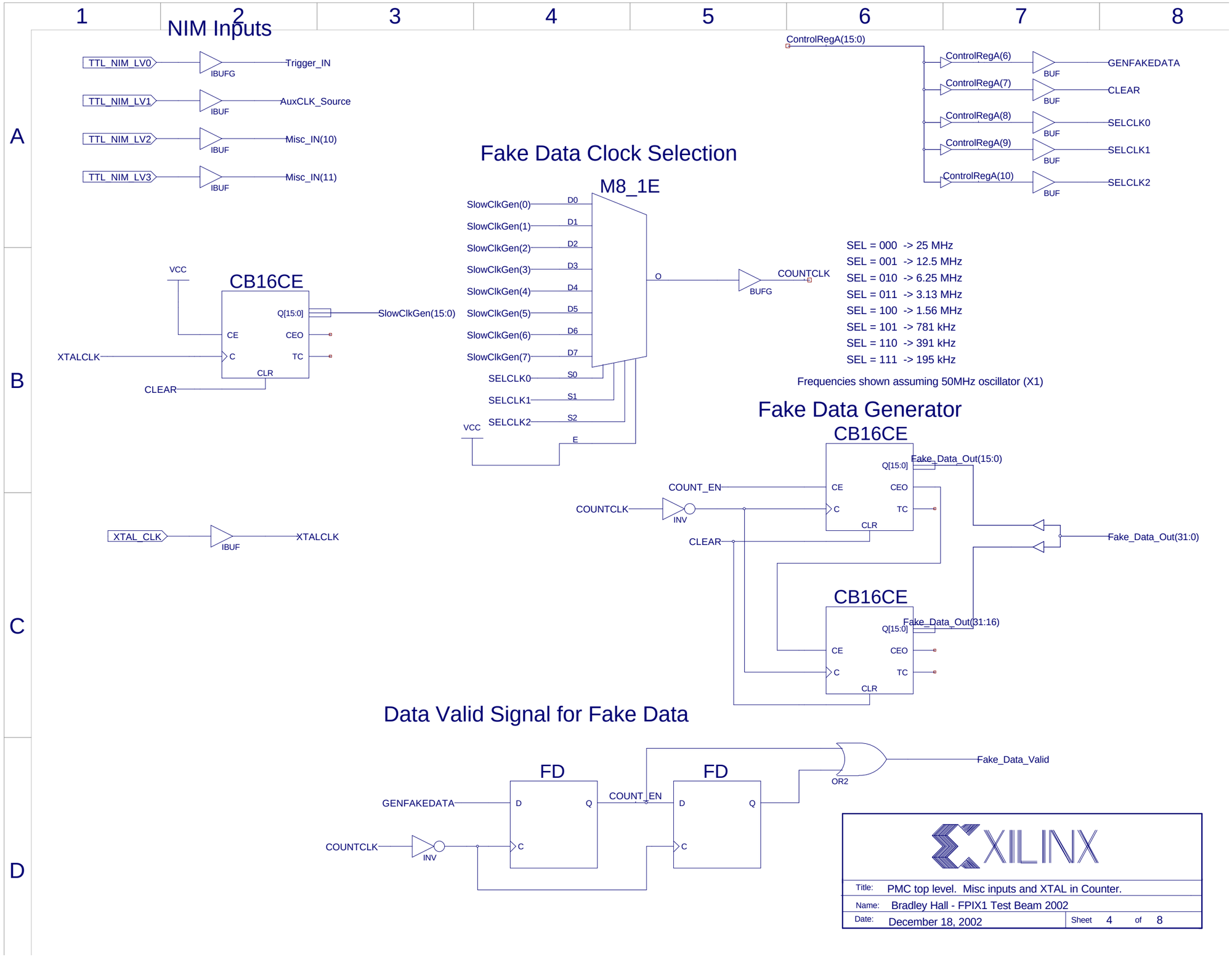
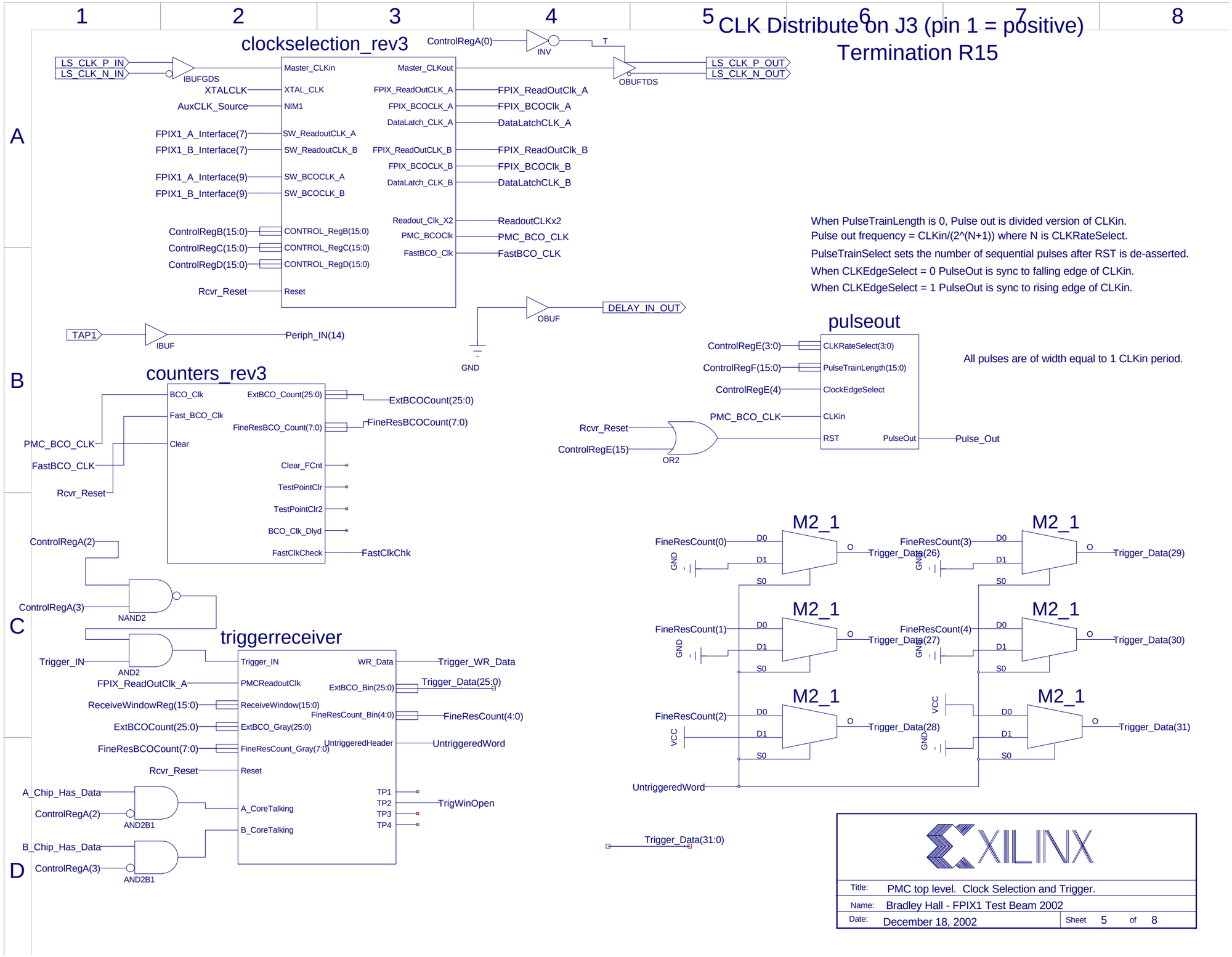

Interface to PTA card
JN1_S0 IBUF LAD_IN(0)
JN1_S1 IBUF LAD_IN(1)
JN1_S2 IBUF LAD_IN(2)
JN1_S3 IBUF LAD_IN(3)
JN1_S4 IBUF LAD_IN(4)
JN1_S5 IBUF LAD_IN(5)
JN1_S6 IBUF LAD_IN(6)
JN1_S7 IBUF LAD_IN(7)
JN1_S8 IBUF LAD_IN(8)
JN1_S9 IBUF LAD_IN(9)
JN1_S10 IBUF LAD_IN(10)
JN1_S11 IBUF LAD_IN(11)
JN1_S12 IBUF LAD_IN(12)
JN1_S13 IBUF LAD_IN(13)
JN1_S14 IBUF LAD_IN(14)
JN1_S15 IBUF LAD_IN(15)
LAD_OUT(15:0)
LAD_IN(15:0)
LAD_OUT(0) OBUF JN1_S16
LAD_OUT(1) OBUF JN1_S17
LAD_OUT(2) OBUF JN1_S18
LAD_OUT(3) OBUF JN1_S19
LAD_OUT(4) OBUF JN1_S20
LAD_OUT(5) OBUF JN1_S21
LAD_OUT(6) OBUF JN1_S22
LAD_OUT(7) OBUF JN1_S23
LAD_OUT(8) OBUF JN1_S24
LAD_OUT(9) OBUF JN1_S25
LAD_OUT(10) OBUF JN1_S26
LAD_OUT(11) OBUF JN1_S27
LAD_OUT(12) OBUF JN1_S28
LAD_OUT(13) OBUF JN1_S29
LAD_OUT(14) OBUF JN1_S30
LAD_OUT(15) OBUF JN1_S31
JN1_S32 IBUF WR_EN
JN1_S33 IBUF ALE
JN1_S34 IBUFG PCI_CLK
Ground(15:0)
Ground(0) Ground(1) Ground(2) Ground(3) Ground(4) Ground(5) Ground(6) Ground(7) Ground(8) Ground(9) Ground(10) Ground(11) Ground(12) Ground(13) Ground(14) Ground(15)
GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND
pmcregisters
LAD_IN(15:0) LAD_IN(15:0) LAD_OUT(15:0) LAD_OUT(15:0)
WR_EN WR_EN
ALE ALE
PCI_CLK PCI_CLK
FirmwareType(15:0) Reg0000_in(15:0) Reg0000(15:0)
FirmwareRev(15:0) Reg0004_in(15:0) Reg0004(15:0)
Reg0008_in(15:0) Reg0008(15:0) ControlRegA(15:0)
Reg000C_in(15:0) Reg000C(15:0) ControlRegB(15:0)
Reg0010_in(15:0) Reg0010(15:0) ControlRegC(15:0)
Reg0014_in(15:0) Reg0014(15:0) ControlRegD(15:0)
Reg00018_in(15:0) Reg00018(15:0) ControlRegE(15:0)
Reg0001C_in(15:0) Reg0001C(15:0) ControlRegF(15:0)
Reg00020_in(15:0) Reg00020(15:0)
Reg00024_in(15:0) Reg00024(15:0) Periph_OUT(15:0)
Reg00028_in(15:0) Reg00028(15:0) Periph_OUT(31:16) Periph_OUT(31:0)
Periph_IN(15:0) Periph_IN(31:0) Reg0002C_in(15:0) Reg0002C(15:0)
Periph_IN(31:16) Reg0030_in(15:0) Reg0030(15:0) Plane_A_ID(15:0)
Reg0034_in(15:0) Reg0034(15:0) Plane_B_ID(15:0)
Ground(15:0) Reg0038_in(15:0) Reg0038(15:0) ReceiveWindowReg(15:0)
Misc_IN(15:0) Reg003C_in(15:0) Reg003C(15:0)
VCC VCC
FirmwareType(1) FirmwareType(0)
Firmware Type = FPIX1 interface
FirmwareType(15:0)
FirmwareType(15) FirmwareType(14) FirmwareType(13) FirmwareType(12) FirmwareType(11) FirmwareType(10) FirmwareType(9) FirmwareType(8) FirmwareType(7) FirmwareType(6) FirmwareType(5) FirmwareType(4) FirmwareType(3) FirmwareType(2)
GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND
VCC VCC VCC
FirmwareRev(8) FirmwareRev(2) FirmwareRev(1) FirmwareRev(0)
Firmware Rev = 1.7
FirmwareRev(15:0)
FirmwareRev(15) FirmwareRev(14) FirmwareRev(13) FirmwareRev(12) FirmwareRev(11) FirmwareRev(10) FirmwareRev(9) FirmwareRev(7) FirmwareRev(6) FirmwareRev(5) FirmwareRev(4) FirmwareRev(3)
GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND GND
XILINX
Title: PMC top level. JN1 I/O and Registers.
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
Sheet 1 of 8

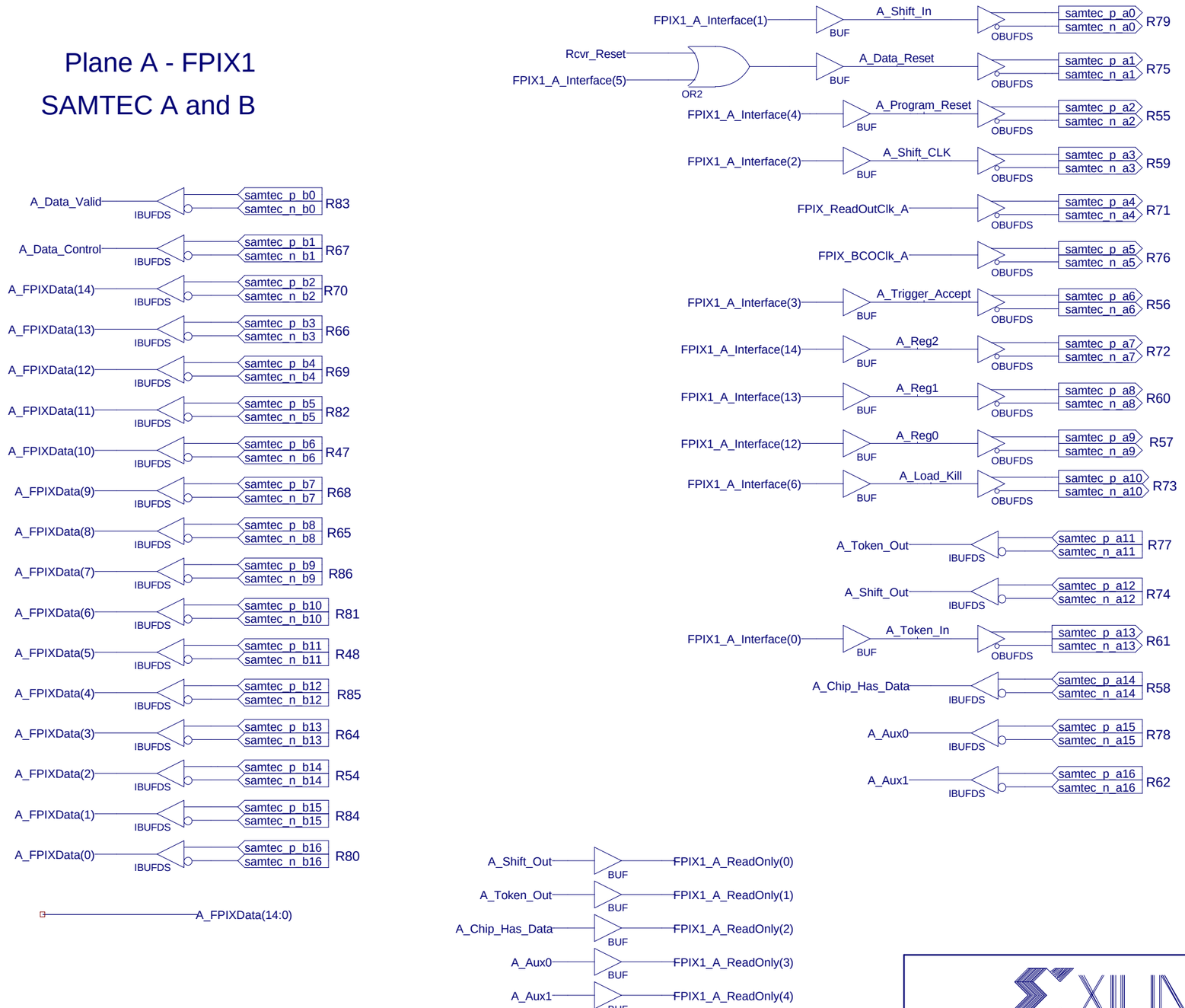

1 2 3 4 5 6 7 8
A B C D
DATA_OUT(0) OBUF JN2_S0
DATA_OUT(1) OBUF JN2_S1
DATA_OUT(2) OBUF JN2_S2
DATA_OUT(3) OBUF JN2_S3
DATA_OUT(4) OBUF JN2_S4
DATA_OUT(5) OBUF JN2_S5
DATA_OUT(6) OBUF JN2_S6
DATA_OUT(7) OBUF JN2_S7
DATA_OUT(8) OBUF JN2_S8
DATA_OUT(9) OBUF JN2_S9
DATA_OUT(10) OBUF JN2_S10
DATA_OUT(11) OBUF JN2_S11
DATA_OUT(12) OBUF JN2_S12
DATA_OUT(13) OBUF JN2_S13
DATA_OUT(14) OBUF JN2_S14
DATA_OUT(15) OBUF JN2_S15
DATA_OUT(16) OBUF JN2_S16
DATA_OUT(17) OBUF JN2_S17
DATA_OUT(18) OBUF JN2_S18
DATA_OUT(19) OBUF JN2_S19
DATA_OUT(20) OBUF JN2_S20
DATA_OUT(21) OBUF JN2_S21
DATA_OUT(22) OBUF JN2_S22
DATA_OUT(23) OBUF JN2_S23
DATA_OUT(24) OBUF JN2_S24
DATA_OUT(25) OBUF JN2_S25
DATA_OUT(26) OBUF JN2_S26
DATA_OUT(27) OBUF JN2_S27
DATA_OUT(28) OBUF JN2_S28
DATA_OUT(29) OBUF JN2_S29
DATA_OUT(30) OBUF JN2_S30
DATA_OUT(31) OBUF JN2_S31
PTA_Data_Valid OBUF JN2_S32
PTA_Data_CLK OBUF ALTERA_CLK4
Had to make copy of mux2to1_16bit that is used in PMCregisters block. Caused currupt register read/writing otherwise.
copymux2to1_16bits
Real_Data_Out(15:0) IN0(15:0)
Fake_Data_Out(15:0) IN1(15:0)
ControlRegA(6) SEL
O(15:0) DATA_OUT(15:0)
copymux2to1_16bits
Real_Data_Out(31:16) IN0(15:0)
Fake_Data_Out(31:16) IN1(15:0)
ControlRegA(6) SEL
O(15:0) DATA_OUT(31:16)
DATA_OUT(31:0)
M2_1
RealData_Valid D0
Fake_Data_Valid D1
ControlRegA(6) S0
O PTA_Data_Valid
M2_1
ReadoutCLKx2 D0
COUNTCLK D1
ControlRegA(6) S0
O PTA_Data_CLK
XILINX
Title: PMC top level. JN2 Outputs.
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
Sheet 2 of 8


1 2 3 4 5 6 7 8
A
B
C
D
PMC_IN_P0
PMC_IN_N0
IBUFDS
Periph_IN(8)
Periph_OUT(8)
OBUFDS
PMC_OUT_P0
PMC_OUT_N0
PMC_IN_P1
PMC_IN_N1
Periph_IN(9)
Periph_OUT(9)
PMC_OUT_P1
PMC_OUT_N1
DELAY_IN_IN
IBUF
Periph_IN(13)
PMC_IN_P2
PMC_IN_N2
Periph_IN(10)
Periph_OUT(10)
PMC_OUT_P2
PMC_OUT_N2
PMC_IN_P3
PMC_IN_N3
Periph_IN(11)
Periph_OUT(11)
PMC_OUT_P3
PMC_OUT_N3
TAP2
Periph_IN(15)
PMC_IN_P4
PMC_IN_N4
Periph_IN(12)
Periph_OUT(12)
PMC_OUT_P4
PMC_OUT_N4
TAP3
Periph_IN(16)
Reset Distribute on J4 (pin 1 = positive) Termination R16
TAP4
Periph_IN(17)
ControlRegA(0)
INV
T
TAP5
Periph_IN(18)
LS_GEN_P_IN
LS_GEN_N_IN
Rcvr_Reset
ControlRegA(1)
OBUFTDS
LS_GEN_P_OUT
LS_GEN_N_OUT
A_Data_Valid
OBUF
POD2_S0
Rcvr_Reset
POD2_S8
TTL_ECL_LV0
Periph_IN(4)
Periph_OUT(4)
TTL_ECL_OUT0
B_Data_Valid
POD2_S1
Trigger_IN
POD2_S9
TTL_ECL_LV1
Periph_IN(5)
Periph_OUT(5)
TTL_ECL_OUT1
FPIX_ReadOutClk_A
POD2_S2
PTA_Data_CLK
POD2_S10
TTL_ECL_LV2
Periph_IN(6)
Periph_OUT(6)
TTL_ECL_OUT2
DataLatchCLK_A
POD2_S3
PTA_Data_Valid
POD2_S11
TTL_ECL_LV3
Periph_IN(7)
Periph_OUT(7)
TTL_ECL_OUT3
PMC_BCO_CLK
POD2_S4
Trigger_WR_Data
POD2_S12
Pulse_Out
TTL_LV0
R28
GND
TTL_LV4
R22
FPIX_ReadOutClk_B
POD2_S5
A_WR_Data
POD2_S13
A_Chip_Has_Data
TTL_LV1
R27
ControlRegA(15)
TTL_LV5
R21
DataLatchCLK_B
POD2_S6
B_WR_Data
POD2_S14
B_Chip_Has_Data
TTL_LV2
R25
TTL_LV6
R26
Periph_IN(2)
FastClkChk
POD2_S7
TrigWinOpen
POD2_S15
GND
TTL_LV3
R19
Pulse_Out
TTL_LV7
R20
HP_LA_CLK1
HP_LA_CLK2
GND
LEDs turn 'on' with logic '0'
A_Chip_Has_Data
LED0
(Silkscreen D4 on Card V1.0)
ControlRegA(0)
LED4
(Silkscreen D8 on Card V1.0)
B_Chip_Has_Data
LED1
(Silkscreen D5 on Card V1.0)
LED5
(Silkscreen D9 on Card V1.0)
Trigger_IN
LED2
(Silkscreen D6 on Card V1.0)
LED6
(Silkscreen D10 on Card V1.0)
Rcvr_Reset
LED3
(Silkscreen D7 on Card V1.0)
LED7
(Silkscreen D11 on Card V1.0)
GND
XILINX
Title: PMC top level. Periphery I/O and LEDs
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
Sheet 3 of 8

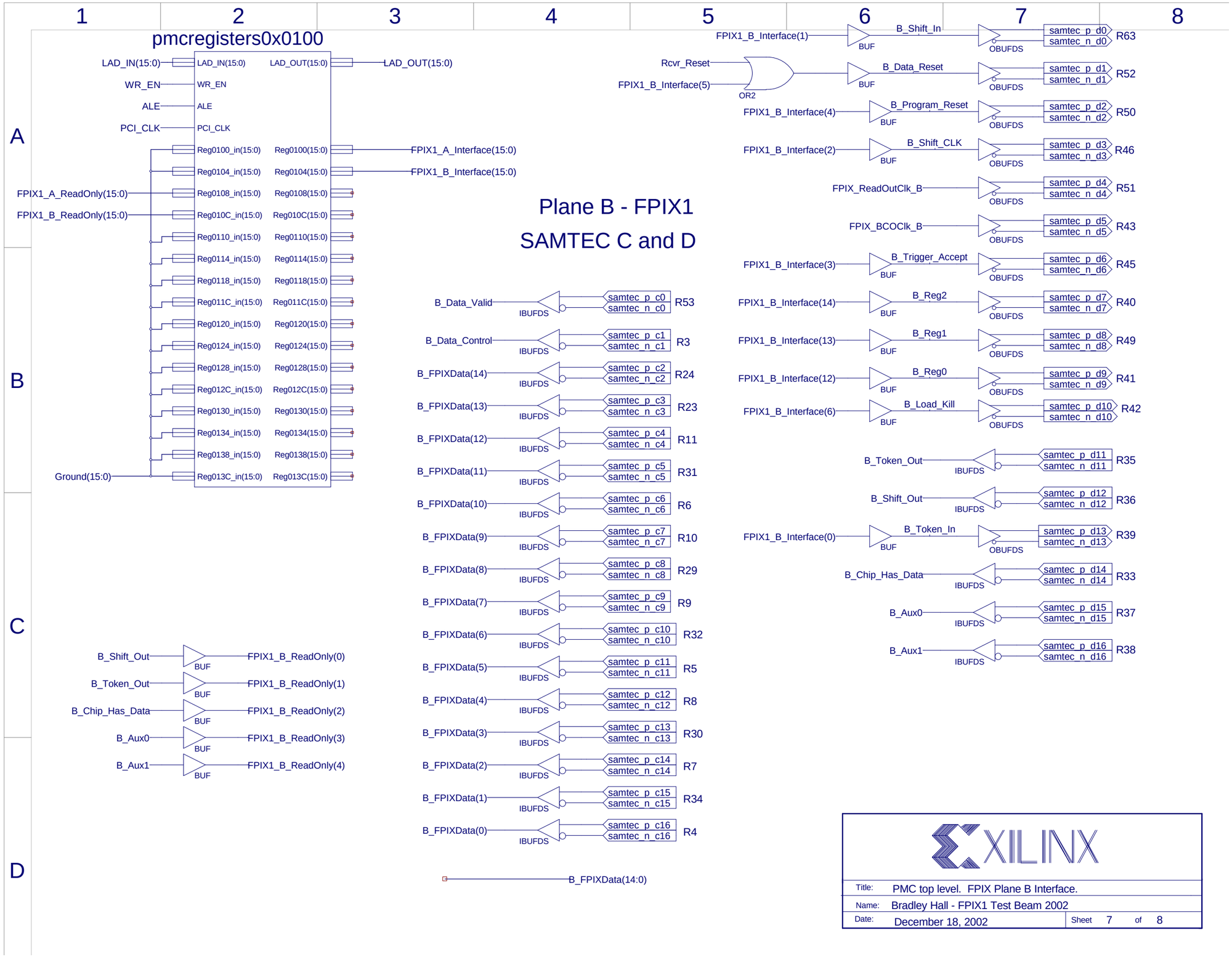

NIM Inputs
TTL_NIM_LV0
IBUFG
Trigger_IN
TTL_NIM_LV1
IBUF
AuxCLK_Source
TTL_NIM_LV2
IBUF
Misc_IN(10)
TTL_NIM_LV3
IBUF
Misc_IN(11)
ControlRegA(15:0)
ControlRegA(6)
BUF
GENFAKEDATA
ControlRegA(7)
BUF
CLEAR
ControlRegA(8)
BUF
SELCLK0
ControlRegA(9)
BUF
SELCLK1
ControlRegA(10)
BUF
SELCLK2
Fake Data Clock Selection
M8_1E
SlowClkGen(0)
SlowClkGen(1)
SlowClkGen(2)
SlowClkGen(3)
SlowClkGen(4)
SlowClkGen(5)
SlowClkGen(6)
SlowClkGen(7)
D0
D1
D2
D3
D4
D5
D6
D7
S0
S1
S2
E
O
BUFG
COUNTCLK
SEL = 000 -> 25 MHz
SEL = 001 -> 12.5 MHz
SEL = 010 -> 6.25 MHz
SEL = 011 -> 3.13 MHz
SEL = 100 -> 1.56 MHz
SEL = 101 -> 781 kHz
SEL = 110 -> 391 kHz
SEL = 111 -> 195 kHz
Frequencies shown assuming 50MHz oscillator (X1)
VCC
CB16CE
Q[15:0]
CE
CEO
C
TC
CLR
SlowClkGen(15:0)
XTALCLK
CLEAR
Fake Data Generator
CB16CE
Fake_Data_Out(15:0)
COUNT_EN
COUNTCLK
INV
CLEAR
Fake_Data_Out(31:0)
XTAL_CLK
IBUF
XTALCLK
CB16CE
Fake_Data_Out(31:16)
Data Valid Signal for Fake Data
FD
FD
GENFAKEDATA
D
Q
COUNT_EN
COUNTCLK
INV
C
OR2
Fake_Data_Valid
XILINX
Title: PMC top level. Misc inputs and XTAL in Counter.
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
Sheet 4 of 8


CLK Distribute on J3 (pin 1 = positive)
Termination R15
clockselection_rev3
LS_CLK_P_IN
LS_CLK_N_IN
IBUFGDS
XTALCLK
AuxCLK_Source
FPIX1_A_Interface(7)
FPIX1_B_Interface(7)
FPIX1_A_Interface(9)
FPIX1_B_Interface(9)
ControlRegB(15:0)
ControlRegC(15:0)
ControlRegD(15:0)
Rcvr_Reset
Master_CLKin
XTAL_CLK
NIM1
SW_ReadoutCLK_A
SW_ReadoutCLK_B
SW_BCOCLK_A
SW_BCOCLK_B
CONTROL_RegB(15:0)
CONTROL_RegC(15:0)
CONTROL_RegD(15:0)
Reset
Master_CLKout
FPIX_ReadOutCLK_A
FPIX_BCOCLK_A
DataLatch_CLK_A
FPIX_ReadOutCLK_B
FPIX_BCOCLK_B
DataLatch_CLK_B
Readout_Clk_X2
PMC_BCOClk
FastBCO_Clk
ControlRegA(0)
INV
T
OBUFTDS
LS_CLK_P_OUT
LS_CLK_N_OUT
FPIX_ReadOutClk_A
FPIX_BCOClk_A
DataLatchCLK_A
FPIX_ReadOutClk_B
FPIX_BCOClk_B
DataLatchCLK_B
ReadoutCLKx2
PMC_BCO_CLK
FastBCO_CLK
OBUF
DELAY_IN_OUT
GND
TAP1
IBUF
Periph_IN(14)
When PulseTrainLength is 0, Pulse out is divided version of CLKin.
Pulse out frequency = CLKin/(2^(N+1)) where N is CLKRateSelect.
PulseTrainSelect sets the number of sequential pulses after RST is de-asserted.
When CLKEdgeSelect = 0 PulseOut is sync to falling edge of CLKin.
When CLKEdgeSelect = 1 PulseOut is sync to rising edge of CLKin.
pulseout
ControlRegE(3:0)
ControlRegF(15:0)
ControlRegE(4)
PMC_BCO_CLK
Rcvr_Reset
ControlRegE(15)
OR2
CLKRateSelect(3:0)
PulseTrainLength(15:0)
ClockEdgeSelect
CLKin
RST
PulseOut
Pulse_Out
All pulses are of width equal to 1 CLKin period.
counters_rev3
PMC_BCO_CLK
FastBCO_CLK
Rcvr_Reset
BCO_Clk
Fast_BCO_Clk
Clear
ExtBCO_Count(25:0)
FineResBCO_Count(7:0)
Clear_FCnt
TestPointClr
TestPointClr2
BCO_Clk_Dlyd
FastClkCheck
ExtBCOCount(25:0)
FineResBCOCount(7:0)
FastClkChk
ControlRegA(2)
ControlRegA(3)
NAND2
Trigger_IN
AND2
triggerreceiver
FPIX_ReadOutClk_A
ReceiveWindowReg(15:0)
ExtBCOCount(25:0)
FineResBCOCount(7:0)
Rcvr_Reset
Trigger_IN
PMCReadoutClk
ReceiveWindow(15:0)
ExtBCO_Gray(25:0)
FineResCount_Gray(7:0)
Reset
WR_Data
ExtBCO_Bin(25:0)
FineResCount_Bin(4:0)
UntriggeredHeader
TP1
TP2
TP3
TP4
Trigger_WR_Data
Trigger_Data(25:0)
FineResCount(4:0)
UntriggeredWord
TrigWinOpen
A_Chip_Has_Data
ControlRegA(2)
AND2B1
B_Chip_Has_Data
ControlRegA(3)
AND2B1
M2_1
FineResCount(0)
FineResCount(1)
FineResCount(2)
FineResCount(3)
FineResCount(4)
D0
D1
S0
O
GND
VCC
Trigger_Data(26)
Trigger_Data(27)
Trigger_Data(28)
Trigger_Data(29)
Trigger_Data(30)
Trigger_Data(31)
UntriggeredWord
Trigger_Data(31:0)
XILINX
Title: PMC top level. Clock Selection and Trigger.
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
Sheet 5 of 8

Plane A - FPIX1
SAMTEC A and B



Title:	PMC top level. FPIX Plane A Interface.
Name:	Bradley Hall - FPIX1 Test Beam 2002
Date:	December 18, 2002
Sheet	6 of 8


1
2
3
4
5
6
7
8
A
B
C
D
pmcregisters0x0100
LAD_IN(15:0)
WR_EN
ALE
PCI_CLK
Reg0100_in(15:0)
Reg0104_in(15:0)
Reg0108_in(15:0)
Reg010C_in(15:0)
Reg0110_in(15:0)
Reg0114_in(15:0)
Reg0118_in(15:0)
Reg011C_in(15:0)
Reg0120_in(15:0)
Reg0124_in(15:0)
Reg0128_in(15:0)
Reg012C_in(15:0)
Reg0130_in(15:0)
Reg0134_in(15:0)
Reg0138_in(15:0)
Reg013C_in(15:0)
LAD_OUT(15:0)
Reg0100(15:0)
Reg0104(15:0)
Reg0108(15:0)
Reg010C(15:0)
Reg0110(15:0)
Reg0114(15:0)
Reg0118(15:0)
Reg011C(15:0)
Reg0120(15:0)
Reg0124(15:0)
Reg0128(15:0)
Reg012C(15:0)
Reg0130(15:0)
Reg0134(15:0)
Reg0138(15:0)
Reg013C(15:0)
FPIX1_A_ReadOnly(15:0)
FPIX1_B_ReadOnly(15:0)
Ground(15:0)
FPIX1_A_Interface(15:0)
FPIX1_B_Interface(15:0)
Plane B - FPIX1
SAMTEC C and D
B_Shift_Out
B_Token_Out
B_Chip_Has_Data
B_Aux0
B_Aux1
BUF
FPIX1_B_ReadOnly(0)
FPIX1_B_ReadOnly(1)
FPIX1_B_ReadOnly(2)
FPIX1_B_ReadOnly(3)
FPIX1_B_ReadOnly(4)
B_Data_Valid
B_Data_Control
B_FPIXData(14)
B_FPIXData(13)
B_FPIXData(12)
B_FPIXData(11)
B_FPIXData(10)
B_FPIXData(9)
B_FPIXData(8)
B_FPIXData(7)
B_FPIXData(6)
B_FPIXData(5)
B_FPIXData(4)
B_FPIXData(3)
B_FPIXData(2)
B_FPIXData(1)
B_FPIXData(0)
IBUFDS
samtec_p_c0
samtec_n_c0
R53
samtec_p_c1
samtec_n_c1
R3
samtec_p_c2
samtec_n_c2
R24
samtec_p_c3
samtec_n_c3
R23
samtec_p_c4
samtec_n_c4
R11
samtec_p_c5
samtec_n_c5
R31
samtec_p_c6
samtec_n_c6
R6
samtec_p_c7
samtec_n_c7
R10
samtec_p_c8
samtec_n_c8
R29
samtec_p_c9
samtec_n_c9
R9
samtec_p_c10
samtec_n_c10
R32
samtec_p_c11
samtec_n_c11
R5
samtec_p_c12
samtec_n_c12
R8
samtec_p_c13
samtec_n_c13
R30
samtec_p_c14
samtec_n_c14
R7
samtec_p_c15
samtec_n_c15
R34
samtec_p_c16
samtec_n_c16
R4
B_FPIXData(14:0)
FPIX1_B_Interface(1)
Rcvr_Reset
FPIX1_B_Interface(5)
OR2
FPIX1_B_Interface(4)
FPIX1_B_Interface(2)
FPIX_ReadOutClk_B
FPIX_BCOClk_B
FPIX1_B_Interface(3)
FPIX1_B_Interface(14)
FPIX1_B_Interface(13)
FPIX1_B_Interface(12)
FPIX1_B_Interface(6)
FPIX1_B_Interface(0)
B_Shift_In
B_Data_Reset
B_Program_Reset
B_Shift_CLK
B_Trigger_Accept
B_Reg2
B_Reg1
B_Reg0
B_Load_Kill
B_Token_In
OBUFDS
samtec_p_d0
samtec_n_d0
R63
samtec_p_d1
samtec_n_d1
R52
samtec_p_d2
samtec_n_d2
R50
samtec_p_d3
samtec_n_d3
R46
samtec_p_d4
samtec_n_d4
R51
samtec_p_d5
samtec_n_d5
R43
samtec_p_d6
samtec_n_d6
R45
samtec_p_d7
samtec_n_d7
R40
samtec_p_d8
samtec_n_d8
R49
samtec_p_d9
samtec_n_d9
R41
samtec_p_d10
samtec_n_d10
R42
samtec_p_d11
samtec_n_d11
R35
samtec_p_d12
samtec_n_d12
R36
samtec_p_d13
samtec_n_d13
R39
samtec_p_d14
samtec_n_d14
R33
samtec_p_d15
samtec_n_d15
R37
samtec_p_d16
samtec_n_d16
R38
XILINX
Title: PMC top level. FPIX Plane B Interface.
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
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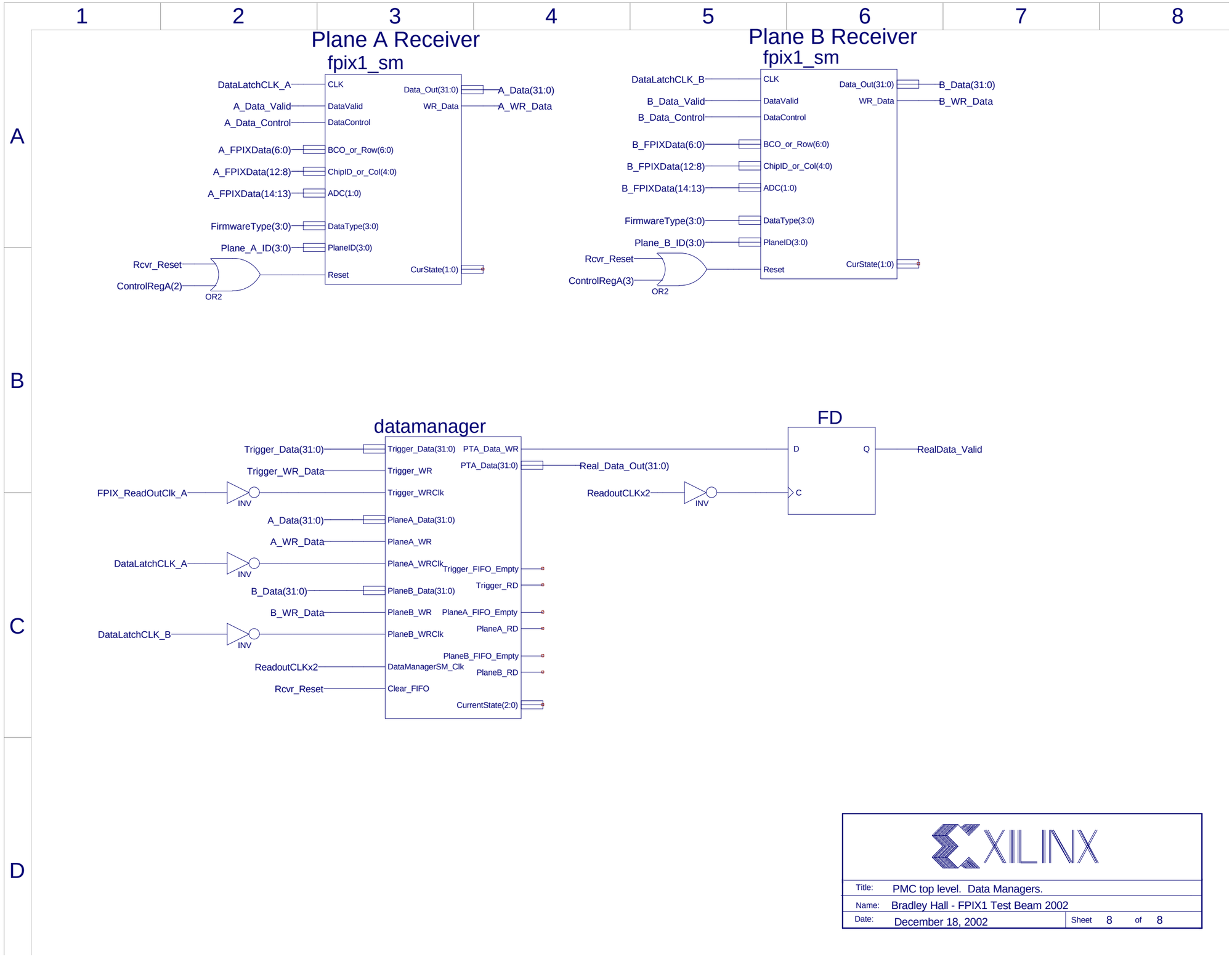
1
2
3
4
5
6
7
8
A
B
C
D
Plane A Receiver
fpix1_sm
DataLatchCLK_A
A_Data_Valid
A_Data_Control
A_FPIXData(6:0)
A_FPIXData(12:8)
A_FPIXData(14:13)
FirmwareType(3:0)
Plane_A_ID(3:0)
Rcvr_Reset
ControlRegA(2)
OR2
CLK
DataValid
DataControl
BCO_or_Row(6:0)
ChipID_or_Col(4:0)
ADC(1:0)
DataType(3:0)
PlaneID(3:0)
Reset
Data_Out(31:0)
WR_Data
CurState(1:0)
A_Data(31:0)
A_WR_Data
Plane B Receiver
fpix1_sm
DataLatchCLK_B
B_Data_Valid
B_Data_Control
B_FPIXData(6:0)
B_FPIXData(12:8)
B_FPIXData(14:13)
FirmwareType(3:0)
Plane_B_ID(3:0)
Rcvr_Reset
ControlRegA(3)
OR2
CLK
DataValid
DataControl
BCO_or_Row(6:0)
ChipID_or_Col(4:0)
ADC(1:0)
DataType(3:0)
PlaneID(3:0)
Reset
Data_Out(31:0)
WR_Data
CurState(1:0)
B_Data(31:0)
B_WR_Data
datamanager
Trigger_Data(31:0)
Trigger_WR_Data
FPIX_ReadOutClk_A
A_Data(31:0)
A_WR_Data
DataLatchCLK_A
B_Data(31:0)
B_WR_Data
DataLatchCLK_B
ReadoutCLKx2
Rcvr_Reset
INV
Trigger_Data(31:0)
Trigger_WR
Trigger_WRClk
PlaneA_Data(31:0)
PlaneA_WR
PlaneA_WRClk
PlaneB_Data(31:0)
PlaneB_WR
PlaneB_WRClk
DataManagerSM_Clk
Clear_FIFO
PTA_Data_WR
PTA_Data(31:0)
Trigger_FIFO_Empty
Trigger_RD
PlaneA_FIFO_Empty
PlaneA_RD
PlaneB_FIFO_Empty
PlaneB_RD
CurrentState(2:0)
Real_Data_Out(31:0)
FD
D
Q
C
RealData_Valid
ReadoutCLKx2
INV
XILINX
Title: PMC top level. Data Managers.
Name: Bradley Hall - FPIX1 Test Beam 2002
Date: December 18, 2002
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