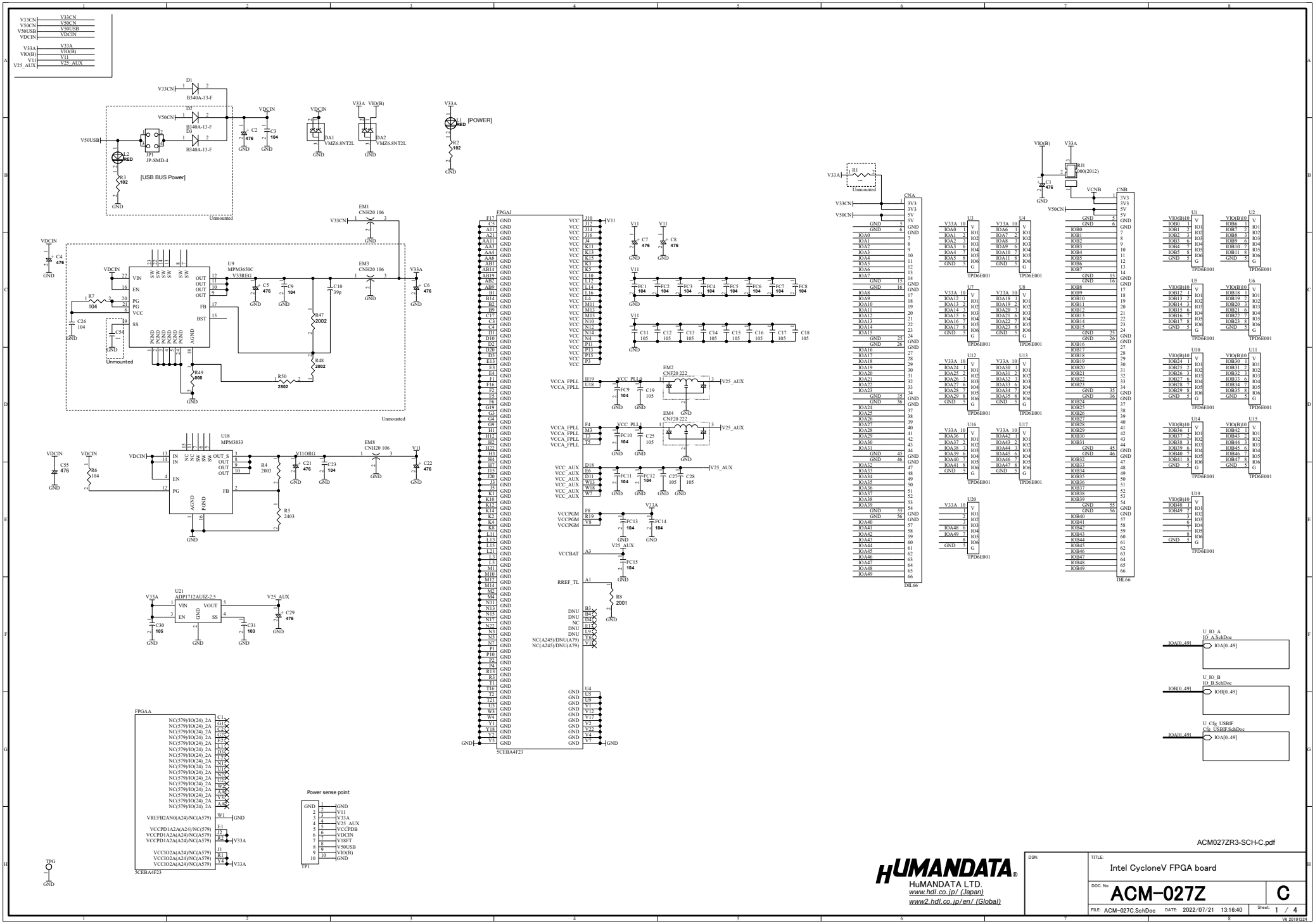
V33CN
V50CN
V50USB
VDCIN
V33A
VIO(B)
V11
V25_AUX
D1
B340A-13-F
D3
JP1
JP-SMD-4
L2
RED
[USB BUS Power]
R3
102
Unmounted
C2
476
C3
104
DA1
VMZ6.8NT2L
DA2
VMZ6.8NT2L
L1
[POWER]
R2
102
EM1
CNH20 106
EM3
CNH20 106
C4
476
C26
104
C54
U9
MPM3650C
V33REG
R7
104
C5
476
C9
104
C10
39p
R47
2002
R48
2002
R49
000
R50
2802
C6
476
EM8
CNH20 106
C22
476
U18
MPM3833
V11ORG
R6
104
C55
476
C21
476
C23
104
R4
2003
R5
2403
U21
ADP1712AUIZ-2.5
C30
105
C31
103
C29
476
TPG
FPGAA
5CEBA4F23
VREFB2AN0(A24)/NC(A579)
VCCPD1A2A(A24)/NC(A579)
VCCIO2A(A24)/NC(A579)
Power sense point
TP1
FPGAJ
5CEBA4F23
C7
476
C8
476
FC1
104
FC2
104
FC3
104
FC4
104
FC5
104
FC6
104
FC7
104
FC8
104
C11
105
C12
105
C13
105
C14
105
C15
105
C16
105
C17
105
C18
105
EM2
CNF20 222
EM4
CNF20 222
VCC_PLL
FC9
104
C19
105
FC10
104
C25
105
FC11
104
FC12
104
C27
105
C28
105
FC13
104
FC14
104
FC15
104
R8
2001
CNA
CNB
DIL66
R1
Unmounted
RJ1
0000(2012)
C1
476
U1
U2
U3
U4
U5
U6
U7
U8
U10
U11
U12
U13
U14
U15
U16
U17
U19
TPD6E001
U_IO_A
IO_A.SchDoc
U_IO_B
IO_B.SchDoc
U_Cfg_USBIF
Cfg_USBIF.SchDoc
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HUMANDATA LTD.
www.hdl.co.jp/ (Japan)
www2.hdl.co.jp/en/ (Global)
DSN:
TITLE:
Intel CycloneV FPGA board
DOC. No:
ACM-027Z
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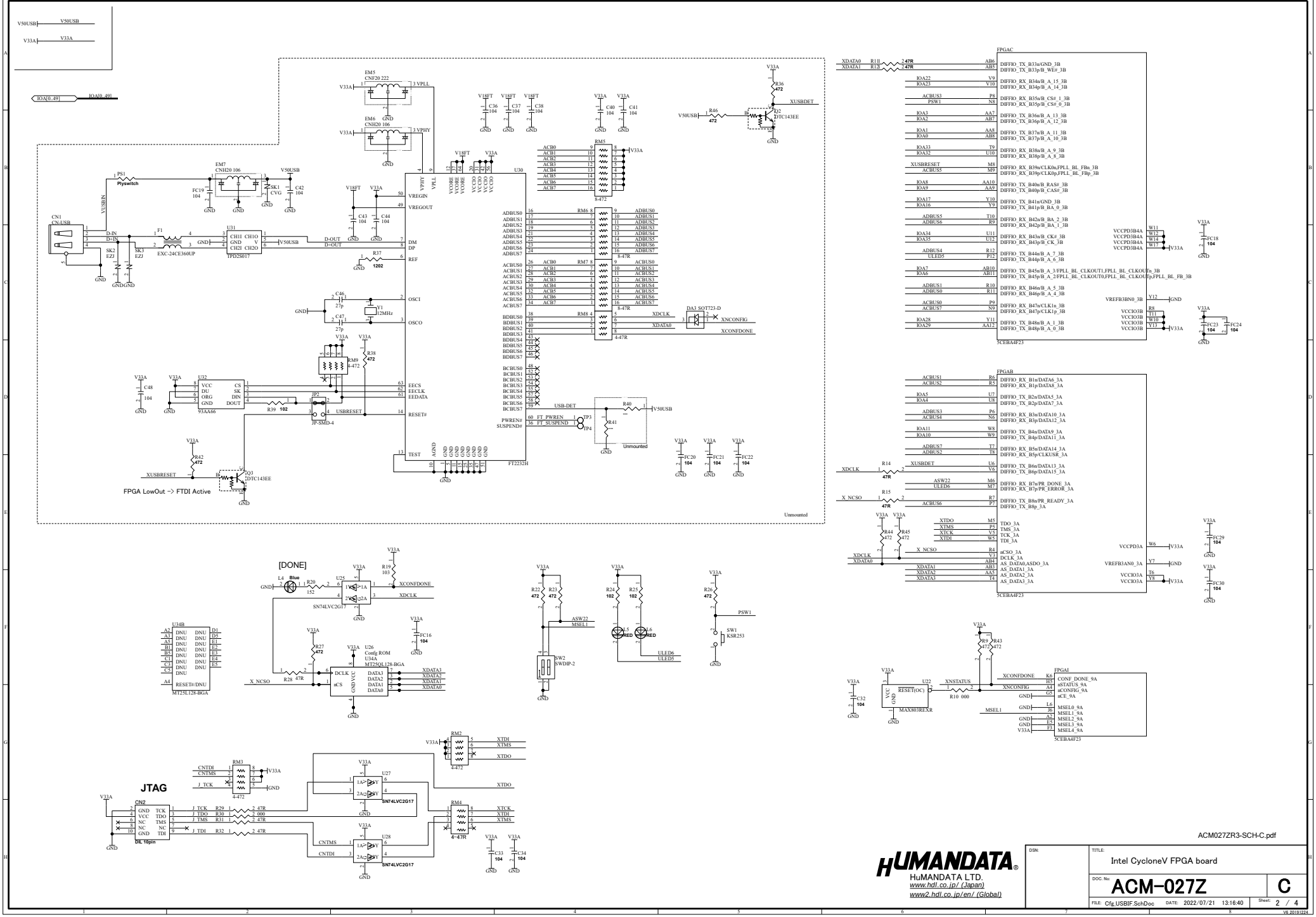
V6.20191224


V50USB
V33A
IOA[0..49]
EM5 CNF20 222
EM6 CNH20 106
EM7 CNH20 106
PS1 Plyswitch
SK1 CVG
SK2 EZJ
SK3 EZJ
CN1 CN-USB
F1 EXC-24CE360UP
U31 TPD2S017
U30 FT2232H
Y1 12MHz
U32 93AA66
JP2 JP-SMD-4
Q3 DTC143EE
R36 472
XUSBDET
R46 472
RM5 8-472
RM6 8-472
RM7 8-472
RM8 4-472
RM9 4-472
DA3 SOT723-D
XDCLK
XDATA0
XNCONFIG
XCONFDONE
USB-DET
R40
R41
Unmounted
FPGA LowOut -> FTDI Active
XUSBRESET
R42 472
R37 1202
R38 472
R39 102
FC16 104
FC18 104
FC20 104
FC21 104
FC22 104
FC23 104
FC24 104
FC29 104
FC30 104
FC32 104
FC33 104
FC34 104
[DONE]
L4 Blue
U25 SN74LVC2G17
R19 103
R20 152
U34B MT25QL128-BGA
U26 Config ROM
U34A MT25QL128-BGA
R27 472
R28 47R
X_NCSO
XDATA3
XDATA2
XDATA1
XDATA0
R22 472
R23 472
R24 102
R25 102
SW2 SWDIP-2
L5 RED
L6 RED
ULED6
ULED5
R29 47R
R30 000
R31 47R
R32 47R
CN2 JTAG
DIL 10pin
RM2 4-472
RM3 4-472
RM4 4-47R
U27 SN74LVC2G17
U28 SN74LVC2G17
XTDI
XTMS
XTDO
XTCK
J_TCK
J_TDO
J_TMS
J_TDI
CNTDI
CNTMS
R26 472
SW1 KSR253
PSW1
FPGAC
FPGAB
FPGA1
5CEBA4F23
R9 472
R43 472
XNSTATUS
U22 MAX803REXR
R10 000
C32 104
XCONFDONE
XNCONFIG
MSEL1
VCCPD3B4A
VCCIO3B
VREFB3BN0_3A
VCCPD3A
VREFB3AN0_3A
VCCIO3A
ACM027ZR3-SCH-C.pdf
HUMANDATA
HuMANDATA LTD.
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www2.hdl.co.jp/en/ (Global)
DSN:
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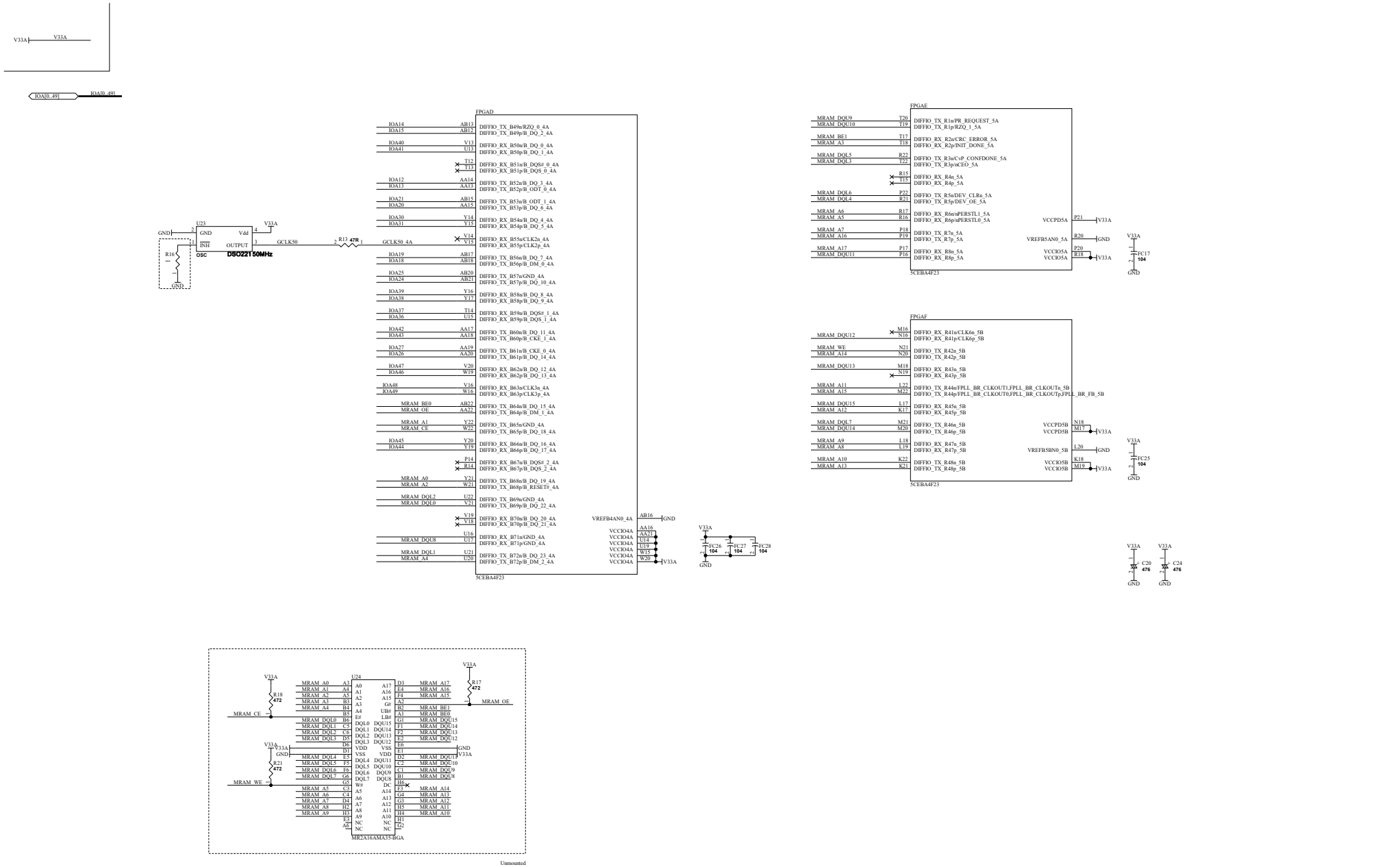
V33A
IOA[0..49]
FPGAD
DIFFIO_TX_B49n/RZQ_0_4A
DIFFIO_TX_B49p/B_DQ_2_4A
DIFFIO_RX_B50n/B_DQ_0_4A
DIFFIO_RX_B50p/B_DQ_1_4A
DIFFIO_RX_B51n/B_DQS#_0_4A
DIFFIO_RX_B51p/B_DQS_0_4A
DIFFIO_RX_B52n/B_DQ_3_4A
DIFFIO_TX_B52p/B_ODT_0_4A
DIFFIO_TX_B53n/B_ODT_1_4A
DIFFIO_TX_B53p/B_DQ_6_4A
DIFFIO_RX_B54n/B_DQ_4_4A
DIFFIO_RX_B54p/B_DQ_5_4A
DIFFIO_RX_B55n/CLK2n_4A
DIFFIO_RX_B55p/CLK2p_4A
DIFFIO_RX_B56n/B_DQ_7_4A
DIFFIO_TX_B56p/B_DM_0_4A
DIFFIO_TX_B57n/GND_4A
DIFFIO_TX_B57p/B_DQ_10_4A
DIFFIO_RX_B58n/B_DQ_8_4A
DIFFIO_RX_B58p/B_DQ_9_4A
DIFFIO_RX_B59n/B_DQS#_1_4A
DIFFIO_RX_B59p/B_DQS_1_4A
DIFFIO_TX_B60n/B_DQ_11_4A
DIFFIO_TX_B60p/B_CKE_1_4A
DIFFIO_TX_B61n/B_CKE_0_4A
DIFFIO_TX_B61p/B_DQ_14_4A
DIFFIO_RX_B62n/B_DQ_12_4A
DIFFIO_RX_B62p/B_DQ_13_4A
DIFFIO_RX_B63n/CLK3n_4A
DIFFIO_RX_B63p/CLK3p_4A
DIFFIO_TX_B64n/B_DQ_15_4A
DIFFIO_TX_B64p/B_DM_1_4A
DIFFIO_TX_B65n/GND_4A
DIFFIO_TX_B65p/B_DQ_18_4A
DIFFIO_RX_B66n/B_DQ_16_4A
DIFFIO_RX_B66p/B_DQ_17_4A
DIFFIO_RX_B67n/B_DQS#_2_4A
DIFFIO_RX_B67p/B_DQS_2_4A
DIFFIO_TX_B68n/B_DQ_19_4A
DIFFIO_TX_B68p/B_RESET#_4A
DIFFIO_TX_B69n/GND_4A
DIFFIO_TX_B69p/B_DQ_22_4A
DIFFIO_RX_B70n/B_DQ_20_4A
DIFFIO_RX_B70p/B_DQ_21_4A
DIFFIO_RX_B71n/GND_4A
DIFFIO_RX_B71p/GND_4A
DIFFIO_TX_B72n/B_DQ_23_4A
DIFFIO_TX_B72p/B_DM_2_4A
VREFB4AN0_4A
VCCIO4A
5CEBA4F23
U23
OSC
DSO22150MHz
R13 47R
R16
GCLK50
GCLK50_4A
FPGAE
DIFFIO_TX_R1n/PR_REQUEST_5A
DIFFIO_TX_R1p/RZQ_1_5A
DIFFIO_RX_R2n/CRC_ERROR_5A
DIFFIO_RX_R2p/INIT_DONE_5A
DIFFIO_TX_R3n/CvP_CONFDONE_5A
DIFFIO_TX_R3p/nCEO_5A
DIFFIO_RX_R4n_5A
DIFFIO_RX_R4p_5A
DIFFIO_TX_R5n/DEV_CLRn_5A
DIFFIO_TX_R5p/DEV_OE_5A
DIFFIO_RX_R6n/nPERSTL1_5A
DIFFIO_RX_R6p/nPERSTL0_5A
DIFFIO_TX_R7n_5A
DIFFIO_TX_R7p_5A
DIFFIO_RX_R8n_5A
DIFFIO_RX_R8p_5A
VCCPD5A
VREFB5AN0_5A
VCCIO5A
5CEBA4F23
FPGAF
DIFFIO_RX_R41n/CLK6n_5B
DIFFIO_RX_R41p/CLK6p_5B
DIFFIO_TX_R42n_5B
DIFFIO_TX_R42p_5B
DIFFIO_RX_R43n_5B
DIFFIO_RX_R43p_5B
DIFFIO_TX_R44n/FPLL_BR_CLKOUT1,FPLL_BR_CLKOUTn_5B
DIFFIO_TX_R44p/FPLL_BR_CLKOUT0,FPLL_BR_CLKOUTp,FPLL_BR_FB_5B
DIFFIO_RX_R45n_5B
DIFFIO_RX_R45p_5B
DIFFIO_TX_R46n_5B
DIFFIO_TX_R46p_5B
DIFFIO_RX_R47n_5B
DIFFIO_RX_R47p_5B
DIFFIO_TX_R48n_5B
DIFFIO_TX_R48p_5B
VCCPD5B
VREFB5BN0_5B
VCCIO5B
5CEBA4F23
FC17 104
FC25 104
FC26 104
FC27 104
FC28 104
C20 476
C24 476
U24
MR2A16AMA35-BGA
R17 472
R18 472
R21 472
MRAM_CE
MRAM_OE
MRAM_WE
Unmounted
ACM027ZR3-SCH-C.pdf
HUMANDATA
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Intel CycloneV FPGA board
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ACM-027Z
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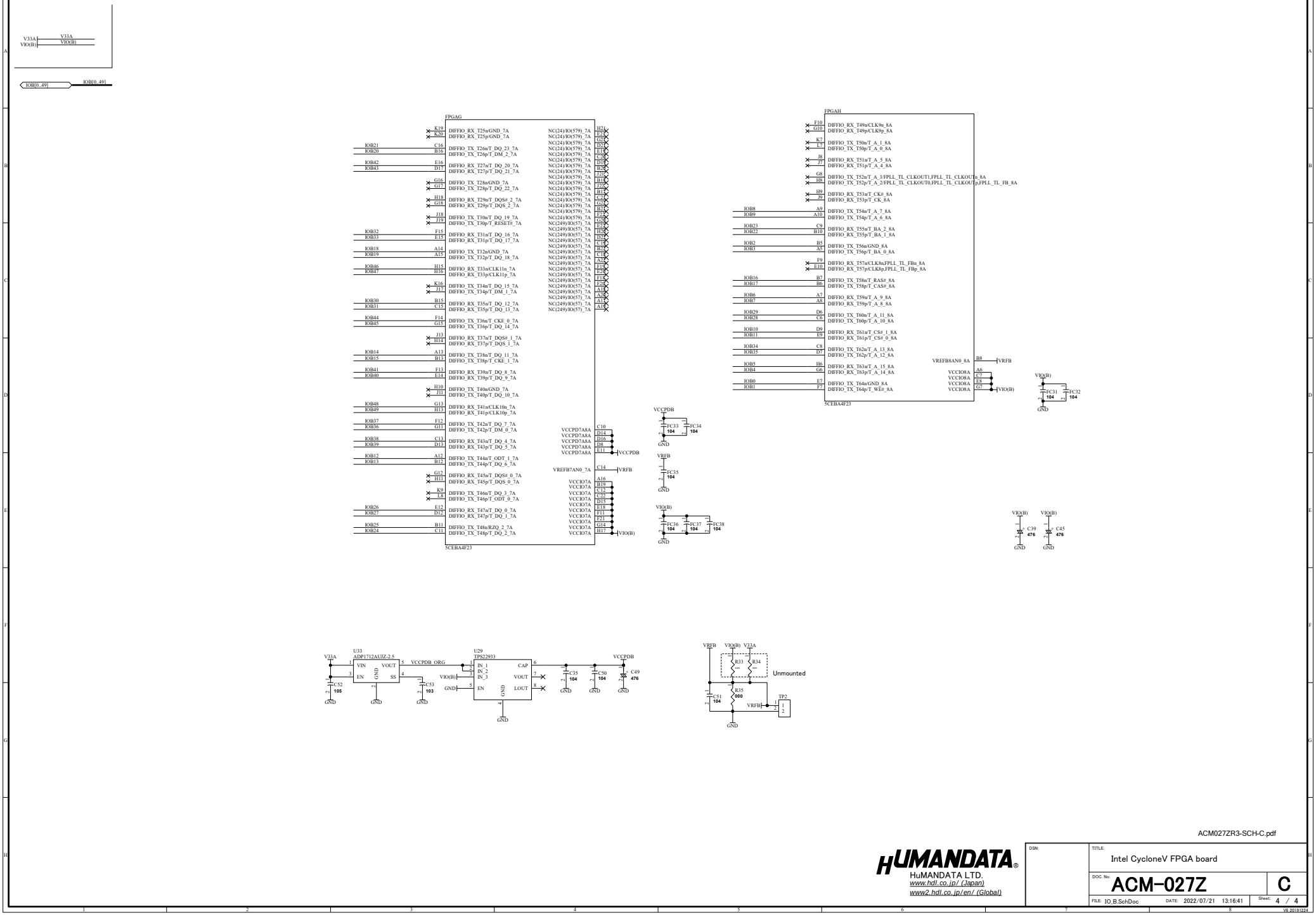
V6 20191224


V33A
VIO(B)
IOB[0..49]
FPGAG
5CEBA4F23
FPGAH
5CEBA4F23
U33
ADP1712AUZ-2.5
U29
TPS22933
Unmounted
TP2
ACM027ZR3-SCH-C.pdf
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IO_B.SchDoc
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