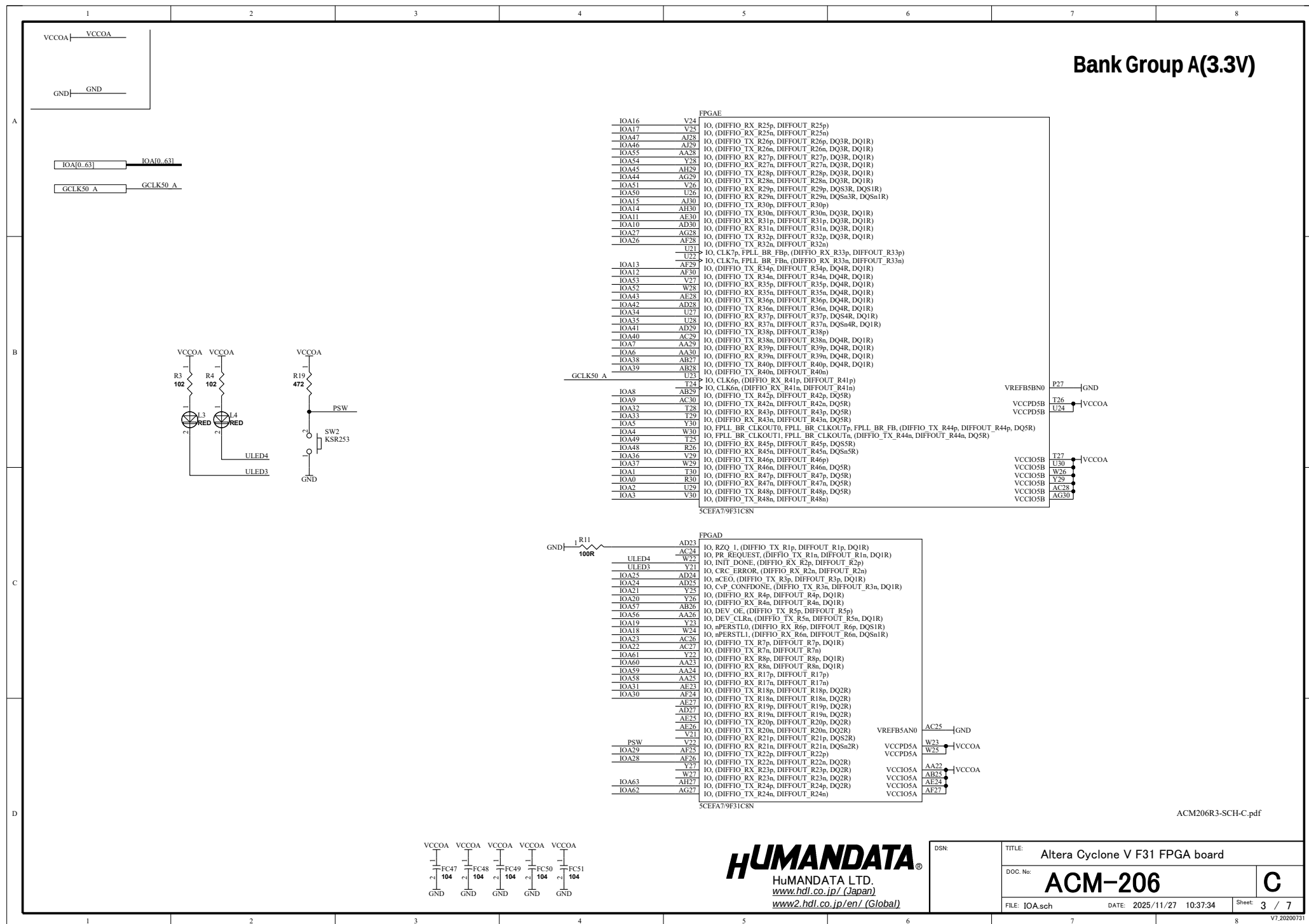
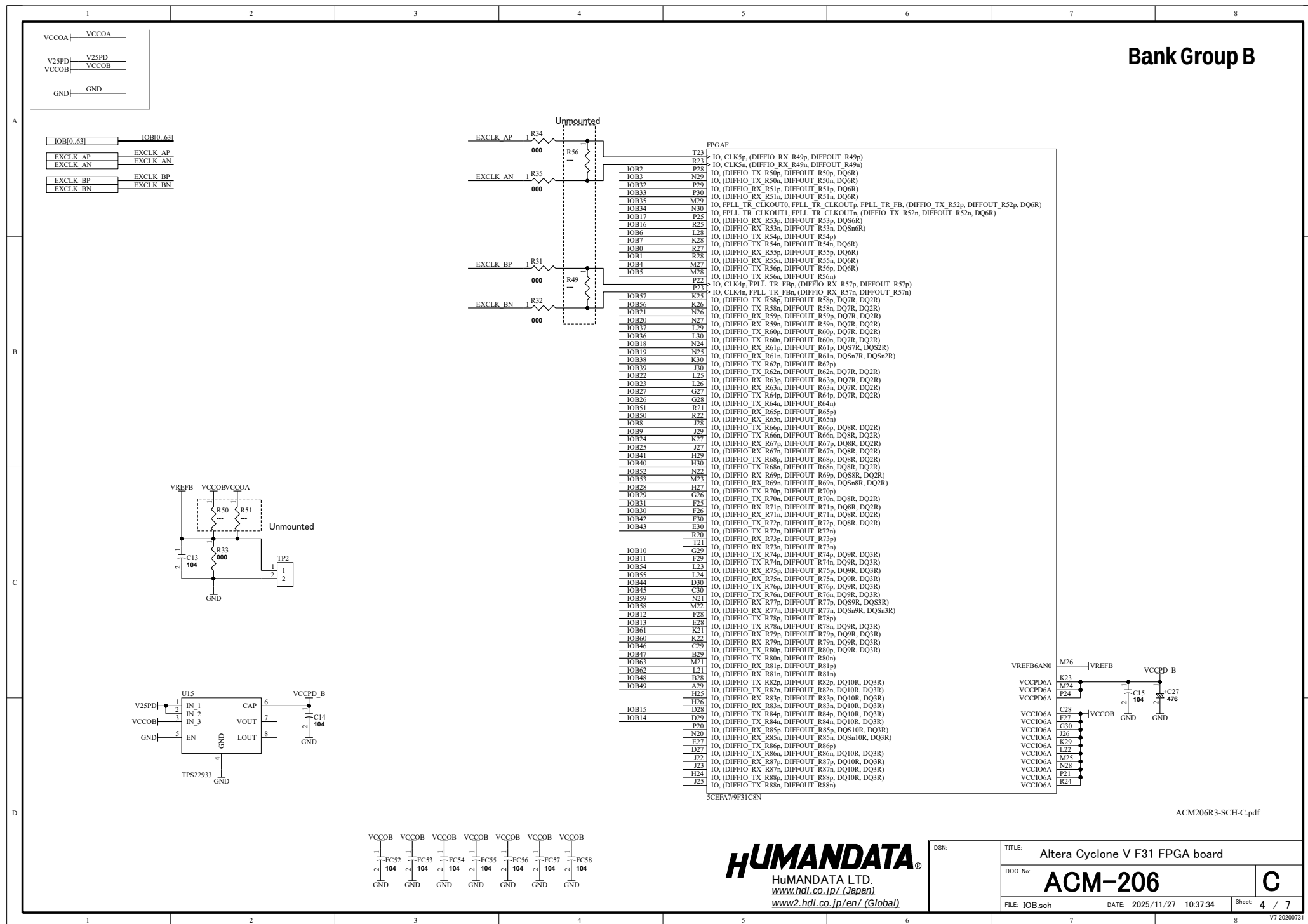
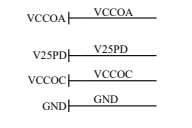




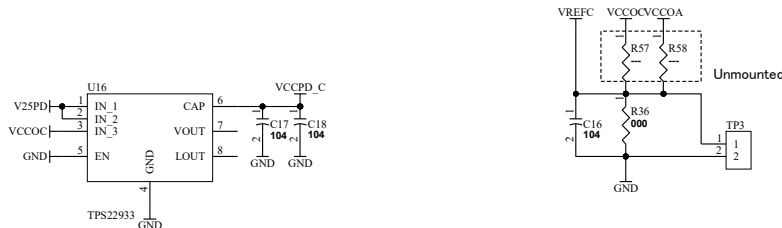




Bank Group C



IOC0_83	IOC0_831
GCLK50_C	GCLK50_C
EXCLK_C1P	EXCLK_C1P
EXCLK_C1N	EXCLK_C1N
EXCLK_C2P	EXCLK_C2P
EXCLK_C2N	EXCLK_C2N



IOC36	AE10
IOC57	AF10
IOC62	AD12
IOC63	AD13
IOC41	V12
IOC40	W12
IOC15	AJ1
IOC14	AJ2
IOC13	AJ3
IOC12	AK3
IOC60	AE12
IOC61	AB12
	AB13
IOC79	AJ4
IOC78	AJ5
IOC11	AK5
IOC10	AK6
IOC26	AF13
IOC27	AG12
IOC38	Y12
IOC39	AA13
IOC9	AJ7
IOC8	AK7
IOC7	AK8
IOC6	AK9
IOC29	AF11
IOC28	AG11
	AB14
	AC14
IOC83	AF9
IOC82	AG9
IOC81	AH9
IOC80	AJ9
IOC76	AH10
IOC77	AJ10
IOC37	Y13
IOC36	AA14
IOC5	AK10
IOC4	AK11
IOC74	AH11
IOC75	AH12
IOC55	AG13
IOC54	AG14
	Y15
	AA15
IOC3	AJ12
IOC2	AK12

IO, (DIFFIO TX B25p, DIFFOUT B25p, DQ3B, DQ1B)

IO, (DIFFIO TX B25n, DIFFOUT B25n)

IO, (DIFFIO RX B26p, DIFFOUT B26p, DQ3B, DQ1B)

IO, (DIFFIO RX B26n, DIFFOUT B26n, DQ3B, DQ1B)

IO, (DIFFIO RX B27p, DIFFOUT B27p, DQ53B, DQ1B)

IO, (DIFFIO RX B27n, DIFFOUT B27n, DQ5n3B, DQ1B)

IO, (DIFFIO TX B28p, DIFFOUT B28p)

IO, (DIFFIO TX B28n, DIFFOUT B28n, DQ3B, DQ1B)

IO, (DIFFIO TX B29p, DIFFOUT B29p, DQ3B, DQ1B)

IO, (DIFFIO TX B29n, DIFFOUT B29n, DQ3B, DQ1B)

IO, (DIFFIO RX B30p, DIFFOUT B30p, DQ3B, DQ1B)

IO, (DIFFIO RX B30n, DIFFOUT B30n, DQ3B, DQ1B)

IO, (DIFFIO RX B31p, DIFFOUT B31p)

IO, (DIFFIO RX B31n, DIFFOUT B31n)

IO, (DIFFIO TX B32p, DIFFOUT B32p, DQ3B, DQ1B)

IO, (DIFFIO TX B32n, DIFFOUT B32n, DQ3B, DQ1B)

IO, (DIFFIO TX B33p, DIFFOUT B33p, DQ4B, DQ1B)

IO, (DIFFIO TX B33n, DIFFOUT B33n)

IO, (DIFFIO RX B34p, DIFFOUT B34p, DQ4B, DQ1B)

IO, (DIFFIO RX B34n, DIFFOUT B34n, DQ4B, DQ1B)

IO, (DIFFIO RX B35p, DIFFOUT B35p, DQ54B, DQ51B)

IO, (DIFFIO RX B35n, DIFFOUT B35n, DQ5n4B, DQ5n1B)

IO, (DIFFIO TX B36p, DIFFOUT B36p)

IO, (DIFFIO TX B36n, DIFFOUT B36n, DQ4B, DQ1B)

IO, (DIFFIO TX B37p, DIFFOUT B37p, DQ4B, DQ1B)

IO, (DIFFIO TX B37n, DIFFOUT B37n, DQ4B, DQ1B)

IO, (DIFFIO RX B38p, DIFFOUT B38p, DQ4B, DQ1B)

IO, (DIFFIO RX B38n, DIFFOUT B38n, DQ4B, DQ1B)

IO, CLK0p, PLL1_B, FbP, (DIFFIO RX B39p, DIFFOUT B39p)

IO, CLK0n, PLL1_B, FbN, (DIFFIO RX B39n, DIFFOUT B39n)

IO, (DIFFIO TX B40p, DIFFOUT B40p, DQ4B, DQ1B)

IO, (DIFFIO TX B40n, DIFFOUT B40n, DQ4B, DQ1B)

IO, (DIFFIO TX B41p, DIFFOUT B41p, DQ5B)

IO, (DIFFIO TX B41n, DIFFOUT B41n)

IO, (DIFFIO RX B42p, DIFFOUT B42p, DQ5B)

IO, (DIFFIO RX B42n, DIFFOUT B42n, DQ5B)

IO, (DIFFIO RX B43p, DIFFOUT B43p, DQ55B)

IO, (DIFFIO RX B43n, DIFFOUT B43n, DQ5n5B)

IO, (DIFFIO TX B44p, DIFFOUT B44p)

IO, (DIFFIO TX B44n, DIFFOUT B44n, DQ5B)

IO, PLL1_B, CLKOUT0, PLL1_B, CLKOUT1p, PLL1_B, FbP, (DIFFIO TX B45p, .p, DQ5B)

IO, PLL1_B, CLKOUT0, PLL1_B, CLKOUT1n, (DIFFIO TX B45n, DIFFOUT B45n, DQ5B)

IO, (DIFFIO RX B46p, DIFFOUT B46p, DQ5B)

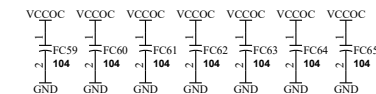
IO, (DIFFIO RX B46n, DIFFOUT B46n, DQ5B)

IO, CLK1p, (DIFFIO RX B47p, DIFFOUT B47p)

IO, CLK1n, (DIFFIO RX B47n, DIFFOUT B47n)

IO, (DIFFIO TX B48p, DIFFOUT B48p, DQ5B)

IO, (DIFFIO TX B48n, DIFFOUT B48n, DQ5B)



	AJ14
	AK13
	AE16
	AF15
	Y16
	AA16
	AH14
	AH15
IOC0	AJ15
IOC1	AK15
IOC32	AD17
IOC33	AE17
	AB16
	AC15
IOC31	AE15
IOC30	AF14
IOC47	AG17
IOC46	AH17
IOC66	AK16
IOC67	AK17
IOC65	Y17
IOC64	Y18
IOC45	AJ17
IOC44	AJ18
IOC49	AJ19
IOC68	AK18
	AF16
	AG16
IOC35	AB17
IOC34	AB18
IOC43	AH19
IOC42	AH20
IOC70	AJ20
IOC71	AK20
IOC43	AD18
IOC52	AE18
	Y20
	AA20
IOC25	AE21
IOC24	AE22
IOC72	AH21
IOC73	AJ22
IOC51	AF18
IOC50	AF19
	AA18
	AA19
IOC23	AJ23
IOC22	AK23
IOC20	AJ24
IOC21	AJ24
IOC48	AG18
IOC49	AG19
	AB19
	AC19
IOC18	AJ25
IOC19	AK25
IOC16	AG24
IOC17	AJ25
IOC58	AD19
IOC59	AE20
	AA21
	AB21
	AC21
	AK26
	AK27
	AK28
	AC20
	AC21
	AC21
	AD20
	AG26
	AG26
	AE22
	AF23
	AF21
	AG22
	AG22
	AC22
	AG23
	AH22

IO, (DIFFIO TX B49p, DIFFOUT B49p, DQ6B)

IO, RZQ_0, (DIFFIO TX B49n, DIFFOUT B49n)

IO, (DIFFIO RX B50p, DIFFOUT B50p, DQ6B)

IO, (DIFFIO RX B50n, DIFFOUT B50n, DQ6B)

IO, (DIFFIO RX B51p, DIFFOUT B51p, DQ56B)

IO, (DIFFIO RX B51n, DIFFOUT B51n, DQ5n6B)

IO, (DIFFIO TX B52p, DIFFOUT B52p)

IO, (DIFFIO TX B52n, DIFFOUT B52n, DQ6B)

IO, (DIFFIO TX B53p, DIFFOUT B53p, DQ6B)

IO, (DIFFIO TX B53n, DIFFOUT B53n, DQ6B)

IO, (DIFFIO RX B54p, DIFFOUT B54p, DQ6B)

IO, (DIFFIO RX B54n, DIFFOUT B54n, DQ6B)

IO, CLK2p, (DIFFIO RX B55p, DIFFOUT B55p)

IO, CLK2n, (DIFFIO RX B55n, DIFFOUT B55n)

IO, (DIFFIO TX B56p, DIFFOUT B56p, DQ6B)

IO, (DIFFIO TX B56n, DIFFOUT B56n, DQ6B)

IO, (DIFFIO TX B57p, DIFFOUT B57p, DQ7B, DQ2B)

IO, (DIFFIO TX B57n, DIFFOUT B57n)

IO, (DIFFIO RX B58p, DIFFOUT B58p, DQ7B, DQ2B)

IO, (DIFFIO RX B58n, DIFFOUT B58n, DQ7B, DQ2B)

IO, (DIFFIO RX B59p, DIFFOUT B59p, DQ57B, DQ2B)

IO, (DIFFIO RX B59n, DIFFOUT B59n, DQ5n7B, DQ2B)

IO, (DIFFIO TX B60p, DIFFOUT B60p)

IO, (DIFFIO TX B60n, DIFFOUT B60n, DQ7B, DQ2B)

IO, (DIFFIO TX B61p, DIFFOUT B61p, DQ7B, DQ2B)

IO, (DIFFIO TX B61n, DIFFOUT B61n, DQ7B, DQ2B)

IO, (DIFFIO RX B62p, DIFFOUT B62p, DQ7B, DQ2B)

IO, (DIFFIO RX B62n, DIFFOUT B62n, DQ7B, DQ2B)

IO, CLK3p, (DIFFIO RX B63p, DIFFOUT B63p)

IO, CLK3n, (DIFFIO RX B63n, DIFFOUT B63n)

IO, (DIFFIO TX B64p, DIFFOUT B64p, DQ7B, DQ2B)

IO, (DIFFIO TX B64n, DIFFOUT B64n, DQ7B, DQ2B)

IO, (DIFFIO TX B65p, DIFFOUT B65p, DQ8B, DQ2B)

IO, (DIFFIO TX B65n, DIFFOUT B65n)

IO, (DIFFIO RX B66p, DIFFOUT B66p, DQ8B, DQ2B)

IO, (DIFFIO RX B66n, DIFFOUT B66n, DQ8B, DQ2B)

IO, (DIFFIO RX B67p, DIFFOUT B67p, DQ58B, DQ52B)

IO, (DIFFIO RX B67n, DIFFOUT B67n, DQ5n8B, DQ5n2B)

IO, (DIFFIO TX B68p, DIFFOUT B68p)

IO, (DIFFIO TX B68n, DIFFOUT B68n, DQ8B, DQ2B)

IO, (DIFFIO TX B69p, DIFFOUT B69p, DQ8B, DQ2B)

IO, (DIFFIO TX B69n, DIFFOUT B69n, DQ8B, DQ2B)

IO, (DIFFIO RX B70p, DIFFOUT B70p, DQ8B, DQ2B)

IO, (DIFFIO RX B70n, DIFFOUT B70n, DQ8B, DQ2B)

IO, (DIFFIO RX B71p, DIFFOUT B71p)

IO, (DIFFIO RX B71n, DIFFOUT B71n)

IO, (DIFFIO TX B72p, DIFFOUT B72p, DQ8B, DQ2B)

IO, (DIFFIO TX B72n, DIFFOUT B72n, DQ8B, DQ2B)

IO, (DIFFIO TX B73p, DIFFOUT B73p, DQ9B, DQ3B)

IO, (DIFFIO TX B73n, DIFFOUT B73n)

IO, (DIFFIO RX B74p, DIFFOUT B74p, DQ9B, DQ3B)

IO, (DIFFIO RX B74n, DIFFOUT B74n, DQ9B, DQ3B)

IO, (DIFFIO RX B75p, DIFFOUT B75p, DQ59B, DQ3B)

IO, (DIFFIO RX B75n, DIFFOUT B75n, DQ5n9B, DQ3B)

IO, (DIFFIO TX B76p, DIFFOUT B76p)

IO, (DIFFIO TX B76n, DIFFOUT B76n, DQ9B, DQ3B)

IO, (DIFFIO TX B77p, DIFFOUT B77p, DQ9B, DQ3B)

IO, (DIFFIO TX B77n, DIFFOUT B77n, DQ9B, DQ3B)

IO, (DIFFIO RX B78p, DIFFOUT B78p, DQ9B, DQ3B)

IO, (DIFFIO RX B78n, DIFFOUT B78n, DQ9B, DQ3B)

IO, (DIFFIO RX B79p, DIFFOUT B79p)

IO, (DIFFIO RX B79n, DIFFOUT B79n)

IO, (DIFFIO TX B80p, DIFFOUT B80p, DQ9B, DQ3B)

IO, (DIFFIO TX B80n, DIFFOUT B80n, DQ9B, DQ3B)

IO, (DIFFIO TX B81p, DIFFOUT B81p, DQ10B, DQ3B)

IO, (DIFFIO TX B81n, DIFFOUT B81n)

IO, (DIFFIO RX B82p, DIFFOUT B82p, DQ10B, DQ3B)

IO, (DIFFIO RX B82n, DIFFOUT B82n, DQ10B, DQ3B)

IO, (DIFFIO RX B83p, DIFFOUT B83p, DQ510B, DQ53B)

IO, (DIFFIO RX B83n, DIFFOUT B83n, DQ5n10B, DQ5n3B)

IO, (DIFFIO TX B84p, DIFFOUT B84p)

IO, (DIFFIO TX B84n, DIFFOUT B84n, DQ10B, DQ3B)

IO, (DIFFIO TX B85p, DIFFOUT B85p, DQ10B, DQ3B)

IO, (DIFFIO TX B85n, DIFFOUT B85n, DQ10B, DQ3B)

IO, (DIFFIO RX B86p, DIFFOUT B86p, DQ10B, DQ3B)

IO, (DIFFIO RX B86n, DIFFOUT B86n, DQ10B, DQ3B)

IO, (DIFFIO RX B87p, DIFFOUT B87p)

IO, (DIFFIO RX B87n, DIFFOUT B87n)

IO, (DIFFIO TX B88p, DIFFOUT B88p, DQ10B, DQ3B)

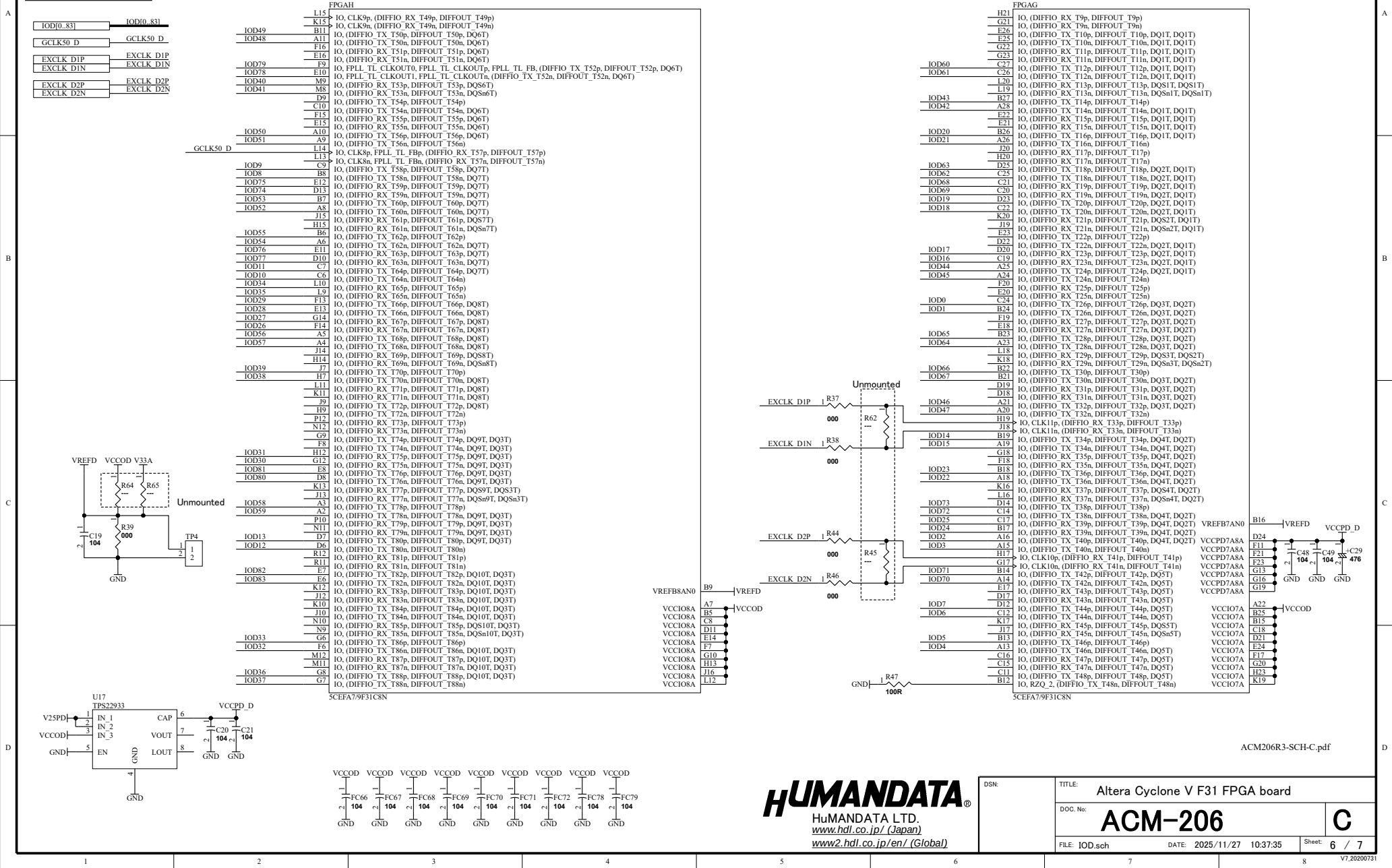
IO, (DIFFIO TX B88n, DIFFOUT B88n, DQ10B, DQ3B)

HUMANDATA

HuMANDATA LTD.
www.hdl.co.jp / (Japan)
www2.hdl.co.jp/en / (Global)

DSN:	TITLE: Altera Cyclone V F31 FPGA board	
DOC. No:	ACM-206	C
FILE: IOC.sch	DATE: 2025/11/27 10:37:34	Sheet 5 / 7

Bank Group D



HUMAN DATA
 HuMANDATA LTD.
www.hdl.co.jp/ (Japan)
www2.hdl.co.jp/en/ (Global)

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