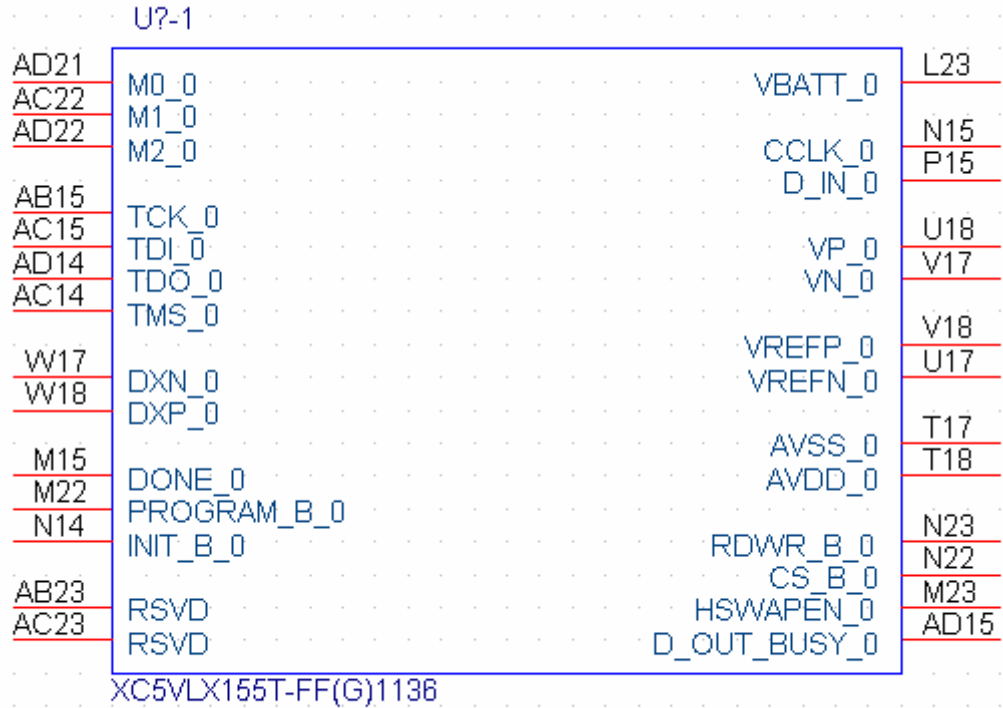


Schematic Symbol for XC5VLX155T-FF(G)1136

The Schematic symbol consists of 32 heterogeneous parts that are listed below:

1. Programming Interface



2. I/O Banks 1 and 2

U?-2

L20	IO_L0N_A18_1	IO_L9P_D1_FS1_2	AE19
L21	IO_L0P_A19_1	IO_L9N_D0_FS0_2	AD19
L16	IO_L1N_A16_1	IO_L8P_D3_2	AF16
L15	IO_L1P_A17_1	IO_L8N_D2_FS2_2	AE17
K21	IO_L2N_A14_D30_1	IO_L7P_D5_2	AE21
J22	IO_L2P_A15_D31_1	IO_L7N_D4_2	AD20
J15	IO_L3N_A12_D28_1	IO_L8P_D7_2	AF15
K16	IO_L3P_A13_D29_1	IO_L8N_D6_2	AE16
H22	IO_L4N_VREF_A10_D26_1	IO_L5P_FWE_B_2	AF20
G22	IO_L4P_A11_D27_1	IO_L5N_CSO_B_2	AF21
K14	IO_L5N_A8_D24_1	IO_L4P_FCS_B_2	AE14
L14	IO_L5P_A9_D25_1	IO_L4N_VREF_FOE_B_MOSI_2	AF14
K22	IO_L6N_A6_D22_1	IO_L3P_A21_2	AE22
K23	IO_L6P_A7_D23_1	IO_L3N_A20_2	AE23
H12	IO_L7N_A4_D20_1	IO_L2P_A23_2	AF13
J12	IO_L7P_A5_D21_1	IO_L2N_A22_2	AG12
H23	IO_L8N_CC_A2_D18_1	IO_L1P_CC_A25_2	AF23
G23	IO_L8P_CC_A3_D19_1	IO_L1N_CC_A24_2	AG23
K12	IO_L9N_CC_A0_D16_1	IO_L0P_CC_RS1_2	AE13
K13	IO_L9P_CC_A1_D17_1	IO_L0N_CC_RS0_2	AE12

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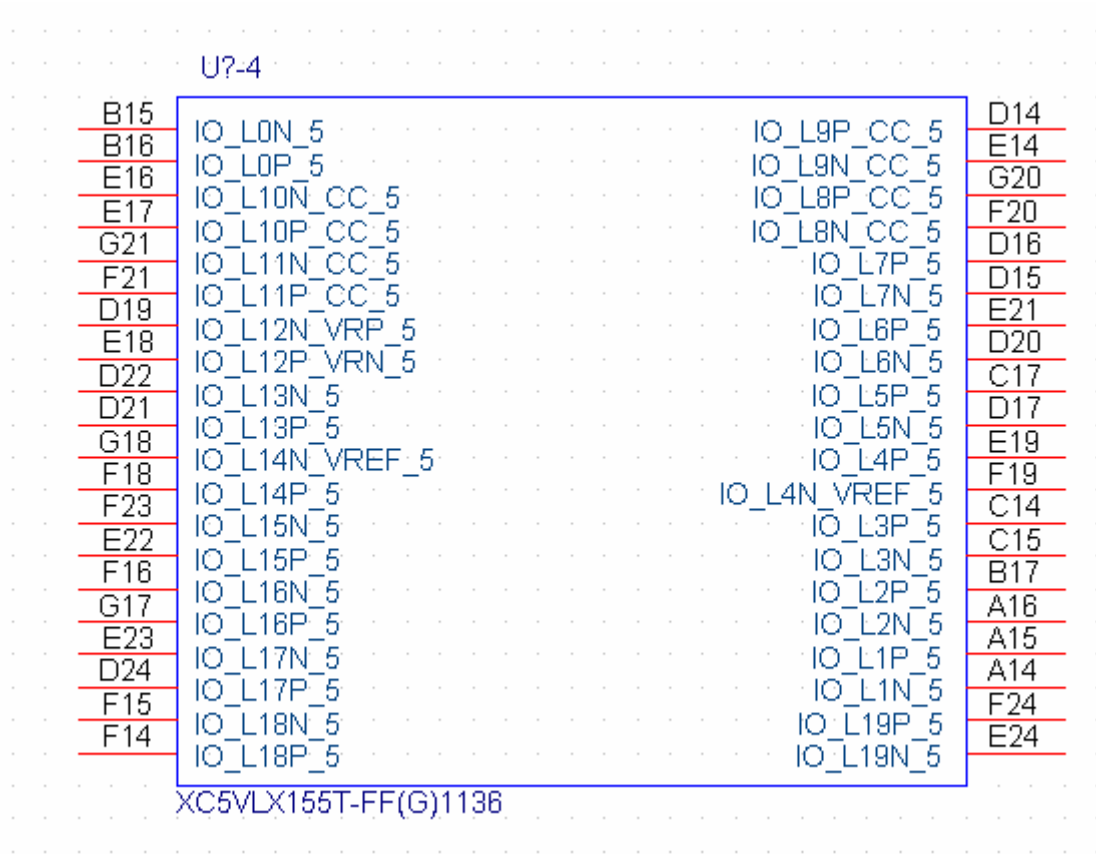
3. I/O Banks 3 and 4

U?-3

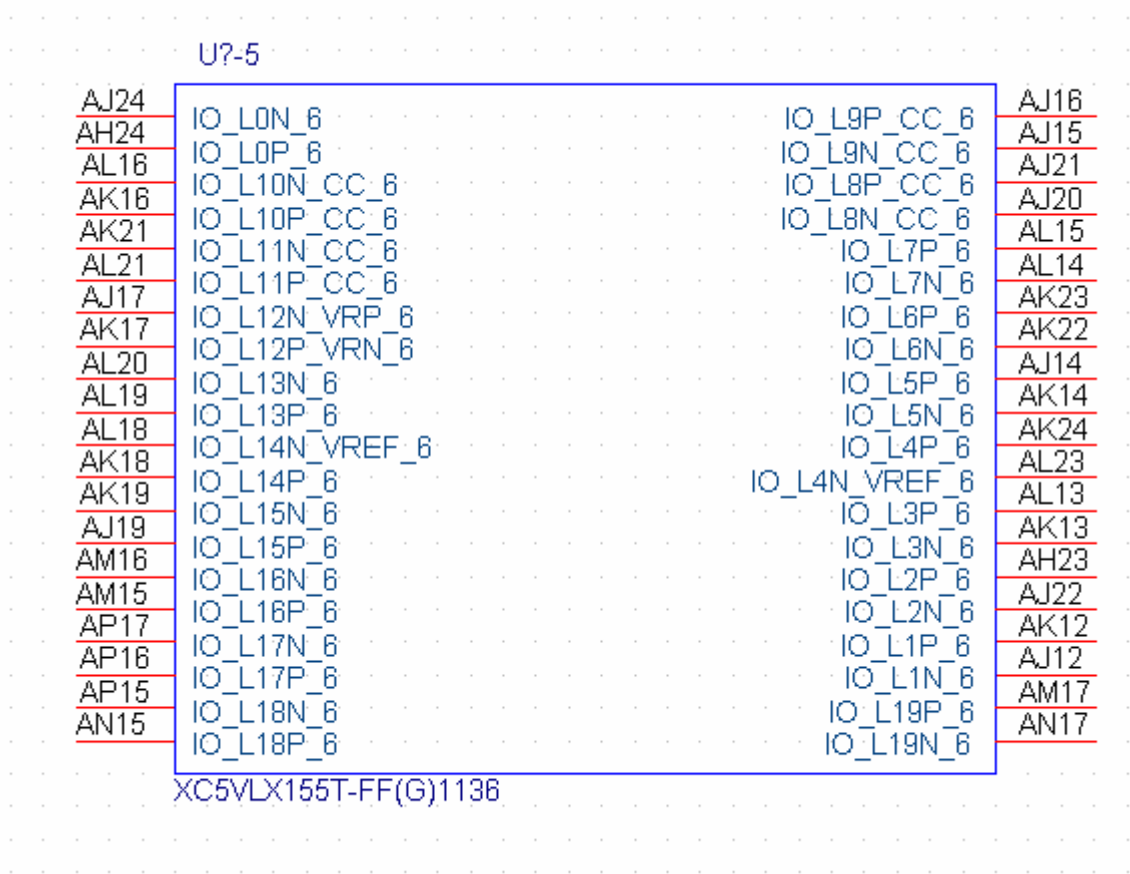
H18	IO_L0N_CC_GC_3	IO_L9P_CC_GC_4	AH18
H17	IO_L0P_CC_GC_3	IO_L9N_CC_GC_4	AG17
L18	IO_L1N_CC_GC_3	IO_L8P_CC_GC_4	AF18
K17	IO_L1P_CC_GC_3	IO_L8N_CC_GC_4	AE18
G16	IO_L2N_GC_VRP_3	IO_L7P_GC_VRN_4	AH17
G15	IO_L2P_GC_VRN_3	IO_L7N_GC_VRP_4	AG16
J19	IO_L3N_GC_3	IO_L6P_GC_4	AG18
K18	IO_L3P_GC_3	IO_L6N_GC_4	AF19
J17	IO_L4N_GC_VREF_3	IO_L5P_GC_4	AH15
J16	IO_L4P_GC_3	IO_L5N_GC_4	AG15
K19	IO_L5N_GC_3	IO_L4P_GC_4	AG21
L19	IO_L5P_GC_3	IO_L4N_GC_VREF_4	AG20
H15	IO_L6N_GC_3	IO_L3P_GC_D9_4	AH14
H14	IO_L6P_GC_3	IO_L3N_GC_D8_4	AH13
J21	IO_L7N_GC_3	IO_L2P_GC_D11_4	AH20
J20	IO_L7P_GC_3	IO_L2N_GC_D10_4	AH19
H13	IO_L8N_GC_3	IO_L1P_GC_D13_4	AH12
J14	IO_L8P_GC_3	IO_L1N_GC_D12_4	AG13
H20	IO_L9N_GC_3	IO_L0P_GC_D15_4	AG22
H19	IO_L9P_GC_3	IO_L0N_GC_D14_4	AH22

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4. I/O Bank 5



5. I/O Bank 6



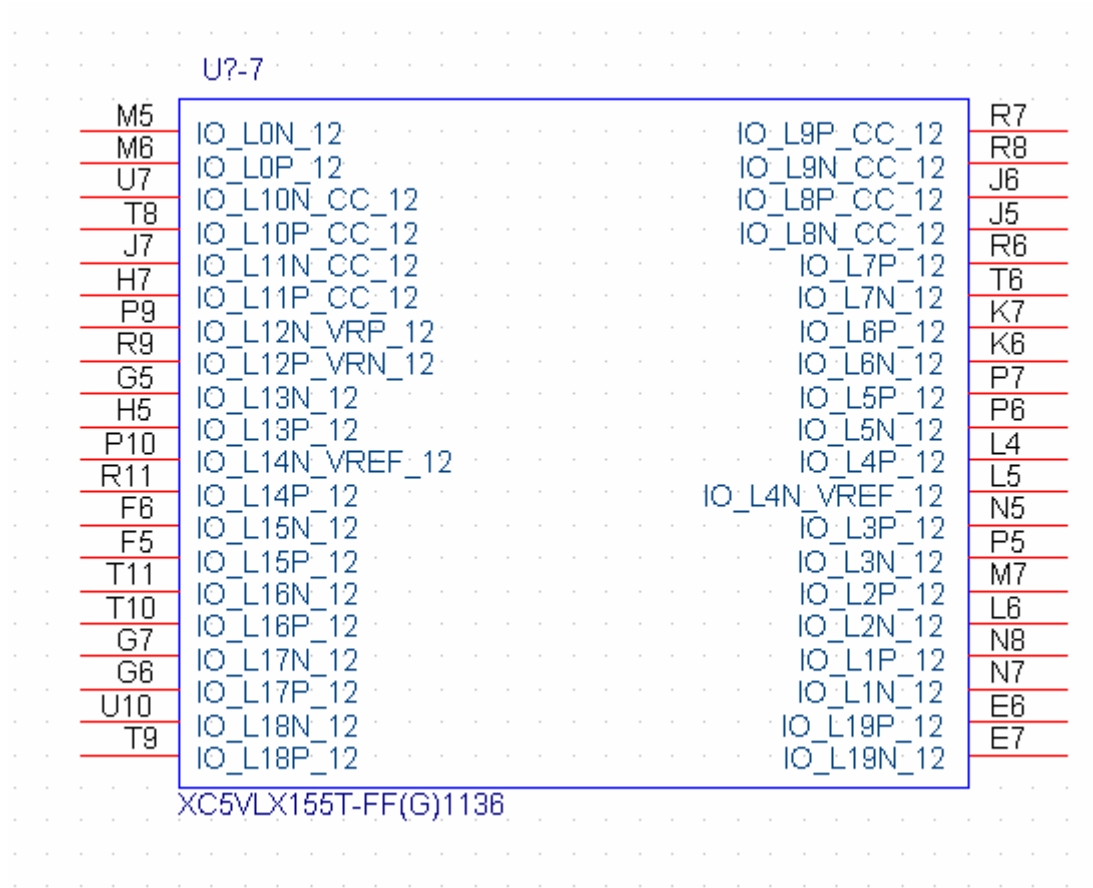
6. I/O Bank 11

U7-8

A33	IO_L0N_11	IO_L9P_CC_11	H34
B32	IO_L0P_11	IO_L9N_CC_11	J34
K34	IO_L10N_CC_SM15N_11	IO_L8P_CC_11	J32
L34	IO_L10P_CC_SM15P_11	IO_L8N_CC_11	H33
K32	IO_L11N_CC_SM14N_11	IO_L7P_11	G33
K33	IO_L11P_CC_SM14P_11	IO_L7N_11	F34
M33	IO_L12N_VRP_11	IO_L6P_11	E32
N33	IO_L12P_VRN_11	IO_L6N_11	E33
M32	IO_L13N_11	IO_L5P_11	F33
L33	IO_L13P_11	IO_L5N_11	E34
N34	IO_L14N_VREF_11	IO_L4P_11	G32
P34	IO_L14P_11	IO_L4N_VREF_11	H32
N32	IO_L15N_SM13N_11	IO_L3P_11	C34
P32	IO_L15P_SM13P_11	IO_L3N_11	D34
R34	IO_L16N_SM12N_11	IO_L2P_11	C32
T33	IO_L16P_SM12P_11	IO_L2N_11	D32
R32	IO_L17N_SM11N_11	IO_L1P_11	B33
R33	IO_L17P_SM11P_11	IO_L1N_11	C33
T34	IO_L18N_SM10N_11	IO_L19P_SM9P_11	U32
U33	IO_L18P_SM10P_11	IO_L19N_SM9N_11	U31

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7. I/O Bank 12



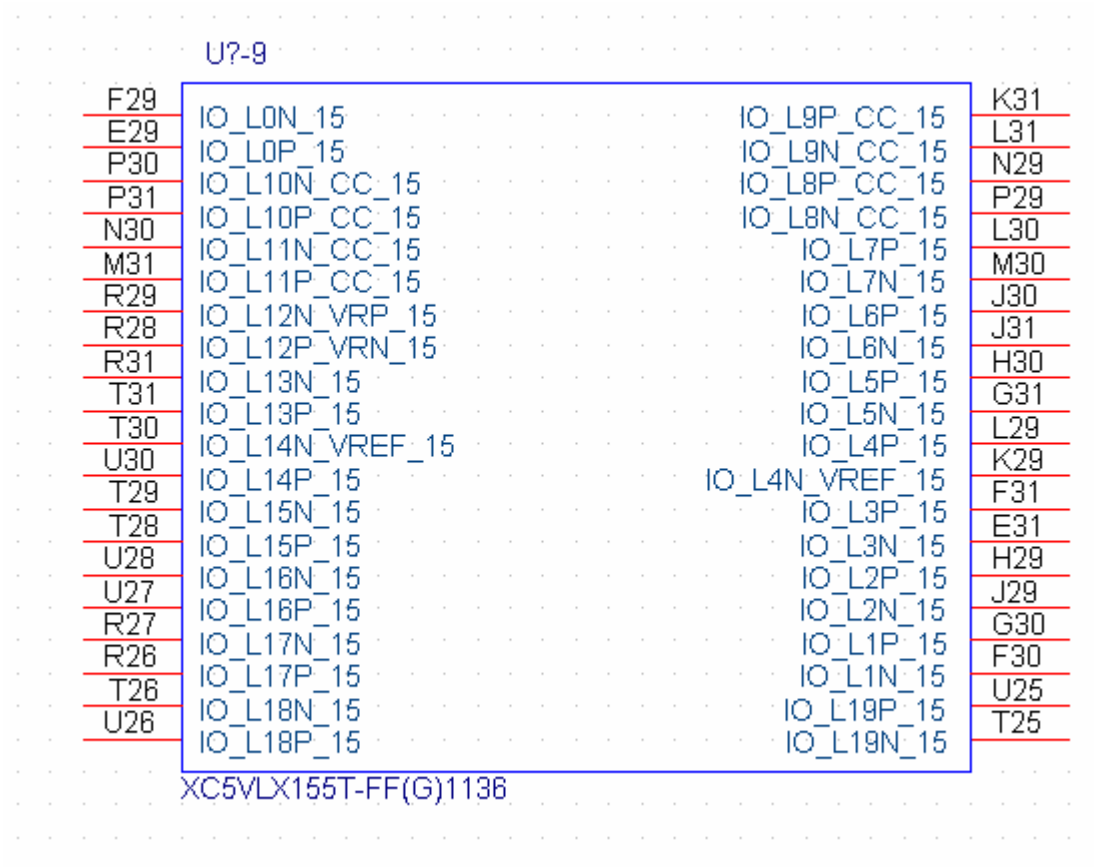
8. I/O Bank 13

U?-8

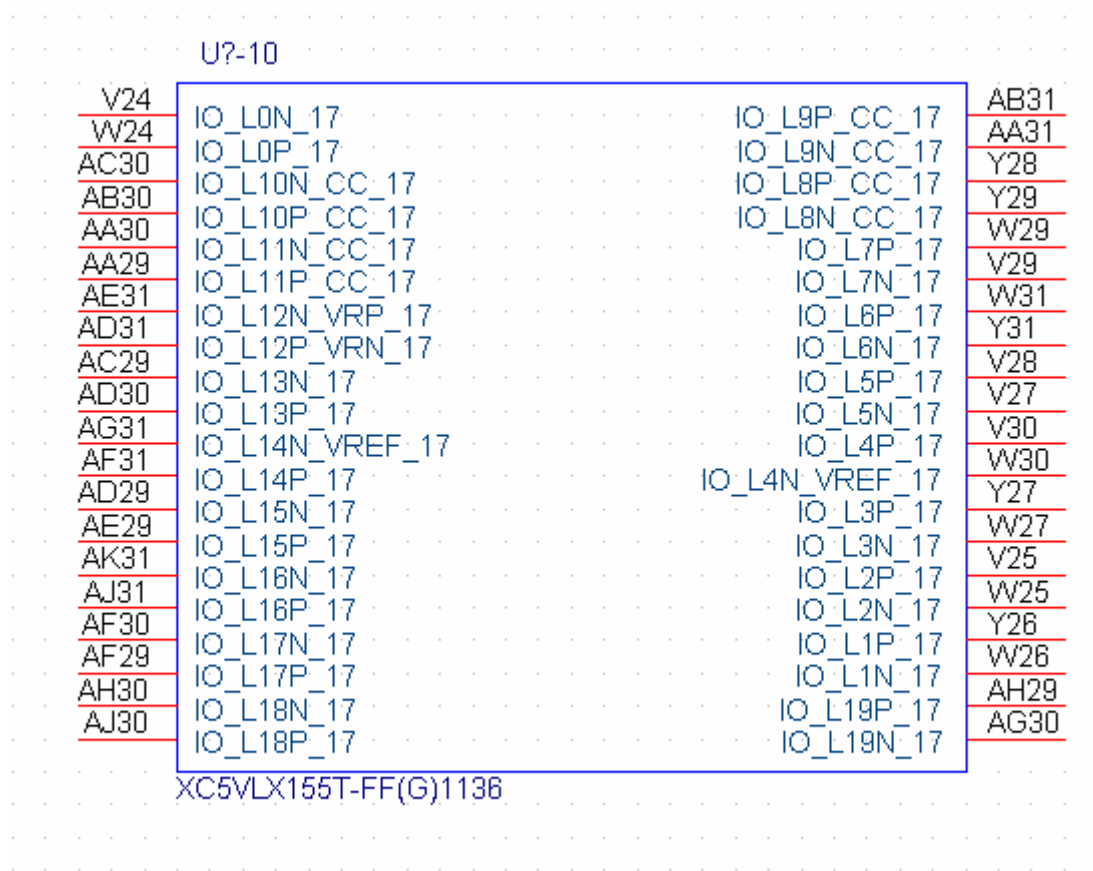
<u>V33</u>	IO_L0N_SM8N_13	IO_L9P_CC_SM0P_13	<u>AF34</u>
<u>V32</u>	IO_L0P_SM8P_13	IO_L9N_CC_SM0N_13	<u>AE34</u>
<u>AJ34</u>	IO_L10N_CC_13	IO_L8P_CC_SM1P_13	<u>AF33</u>
<u>AH34</u>	IO_L10P_CC_13	IO_L8N_CC_SM1N_13	<u>AE33</u>
<u>AE32</u>	IO_L11N_CC_13	IO_L7P_SM2P_13	<u>AC33</u>
<u>AD32</u>	IO_L11P_CC_13	IO_L7N_SM2N_13	<u>AB33</u>
<u>AH33</u>	IO_L12N_VRP_13	IO_L6P_SM3P_13	<u>AC32</u>
<u>AG33</u>	IO_L12P_VRN_13	IO_L6N_SM3N_13	<u>AB32</u>
<u>AK33</u>	IO_L13N_13	IO_L5P_SM4P_13	<u>AC34</u>
<u>AK34</u>	IO_L13P_13	IO_L5N_SM4N_13	<u>AD34</u>
<u>AH32</u>	IO_L14N_VREF_13	IO_L4P_13	<u>Y32</u>
<u>AG32</u>	IO_L14P_13	IO_L4N_VREF_13	<u>W32</u>
<u>AK32</u>	IO_L15N_13	IO_L3P_SM5P_13	<u>AA34</u>
<u>AJ32</u>	IO_L15P_13	IO_L3N_SM5N_13	<u>Y34</u>
<u>AL33</u>	IO_L16N_13	IO_L2P_SM6P_13	<u>Y33</u>
<u>AL34</u>	IO_L16P_13	IO_L2N_SM6N_13	<u>AA33</u>
<u>AM32</u>	IO_L17N_13	IO_L1P_SM7P_13	<u>W34</u>
<u>AM33</u>	IO_L17P_13	IO_L1N_SM7N_13	<u>V34</u>
<u>AN33</u>	IO_L18N_13	IO_L19P_13	<u>AN32</u>
<u>AN34</u>	IO_L18P_13	IO_L19N_13	<u>AP32</u>

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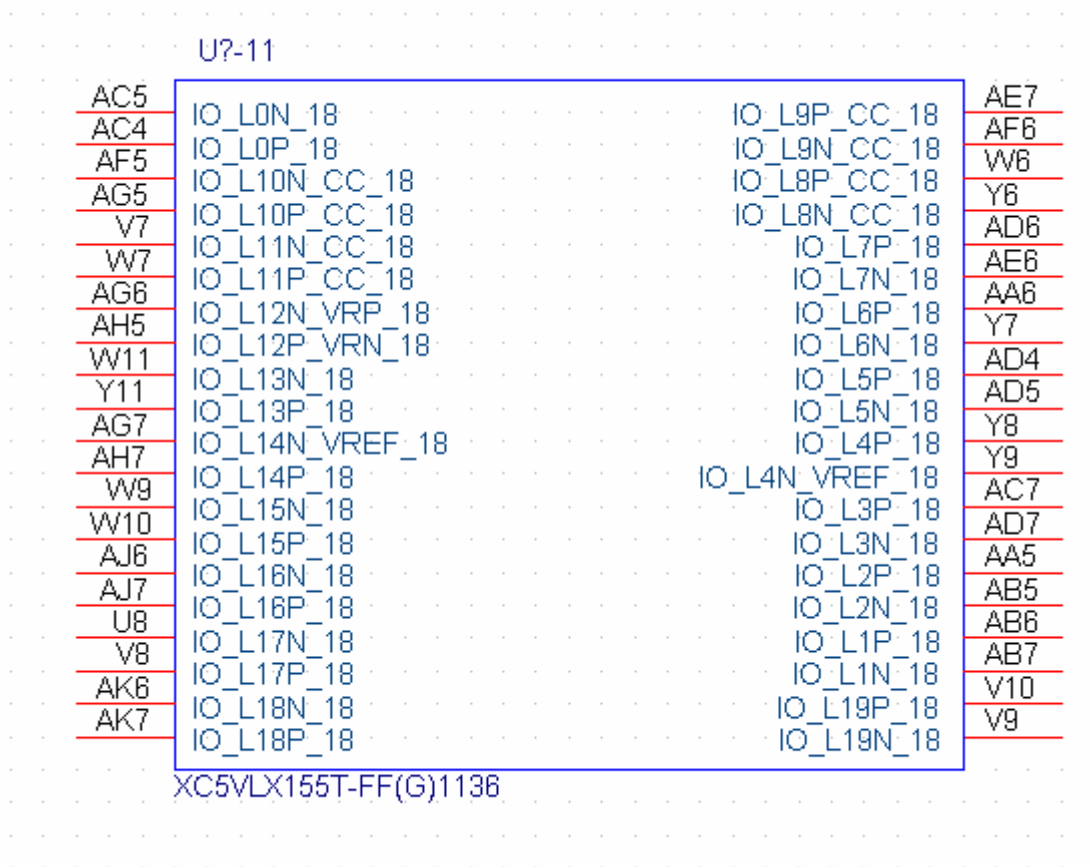
9. I/O Bank 15



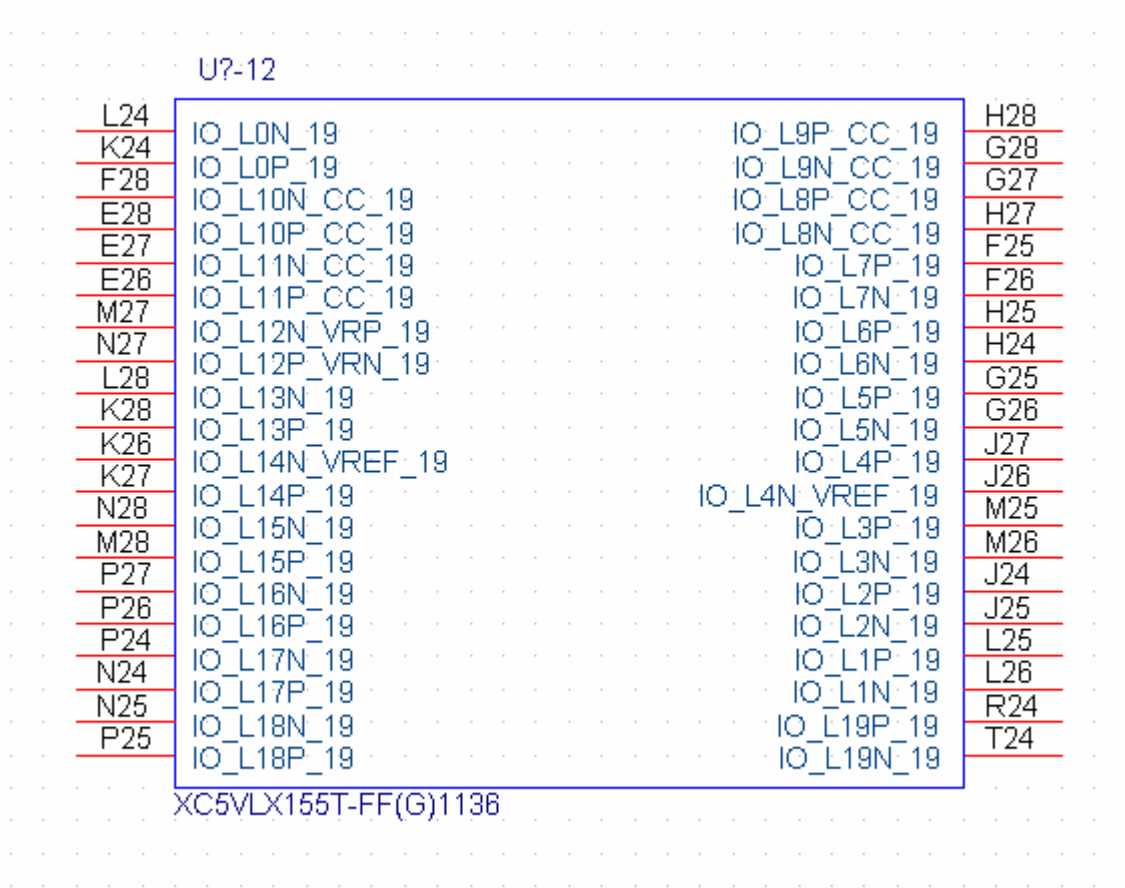
10. I/O Bank 17



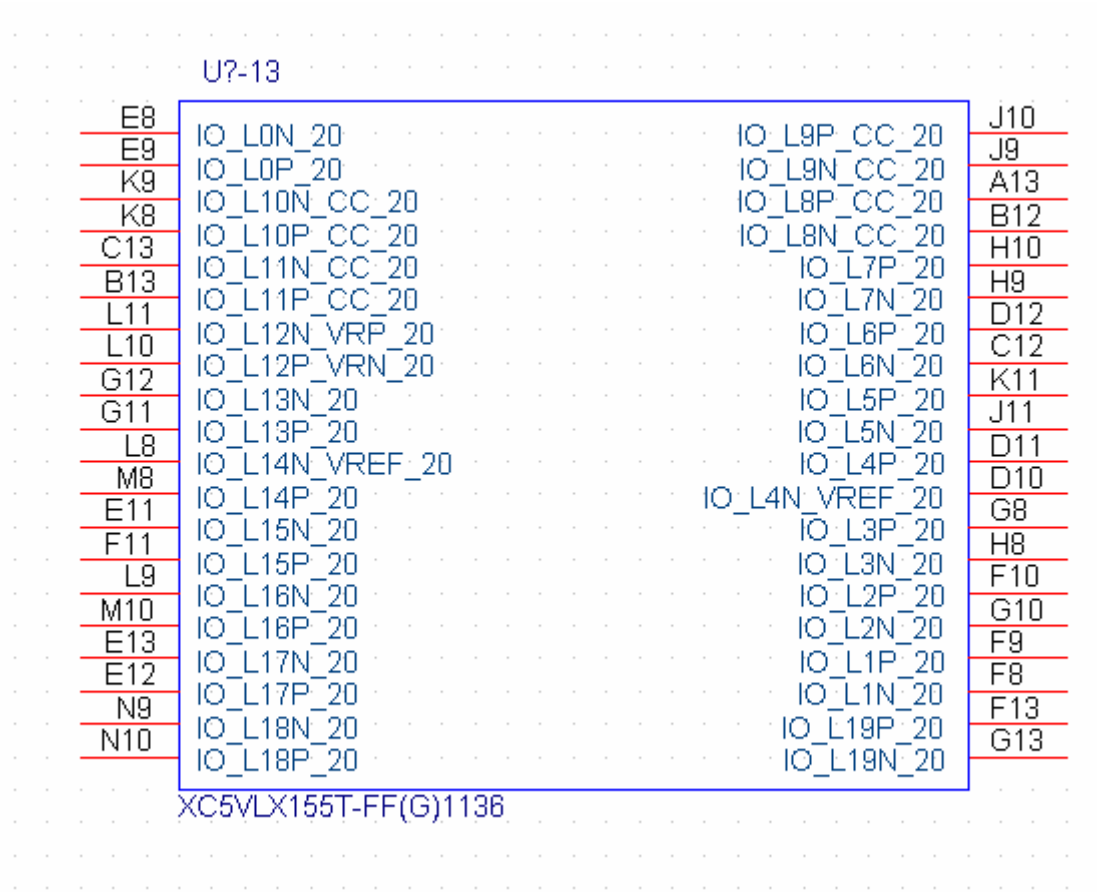
11. I/O Bank 18



12. I/O Bank 19



13. I/O Bank 20



14. I/O Bank 21

U?-14

AA26	IO_L0N_21	IO_L9P_CC_21	AK29
AA25	IO_L0P_21	IO_L9N_CC_21	AJ29
AK27	IO_L10N_CC_21	IO_L8P_CC_21	AK26
AK28	IO_L10P_CC_21	IO_L8N_CC_21	AJ27
AJ26	IO_L11N_CC_21	IO_L7P_21	AE28
AH27	IO_L11P_CC_21	IO_L7N_21	AF28
AH25	IO_L12N_VRP_21	IO_L6P_21	AG28
AJ25	IO_L12P_VRN_21	IO_L6N_21	AH28
AG25	IO_L13N_21	IO_L5P_21	AB28
AF24	IO_L13P_21	IO_L5N_21	AA28
AG26	IO_L14N_VREF_21	IO_L4P_21	AC28
AG27	IO_L14P_21	IO_L4N_VREF_21	AD27
AF26	IO_L15N_21	IO_L3P_21	AB25
AF25	IO_L15P_21	IO_L3N_21	AB26
AE26	IO_L16N_21	IO_L2P_21	Y24
AE27	IO_L16P_21	IO_L2N_21	AA24
AC24	IO_L17N_21	IO_L1P_21	AB27
AC25	IO_L17P_21	IO_L1N_21	AC27
AD25	IO_L18N_21	IO_L19P_21	AD24
AD26	IO_L18P_21	IO_L19N_21	AE24

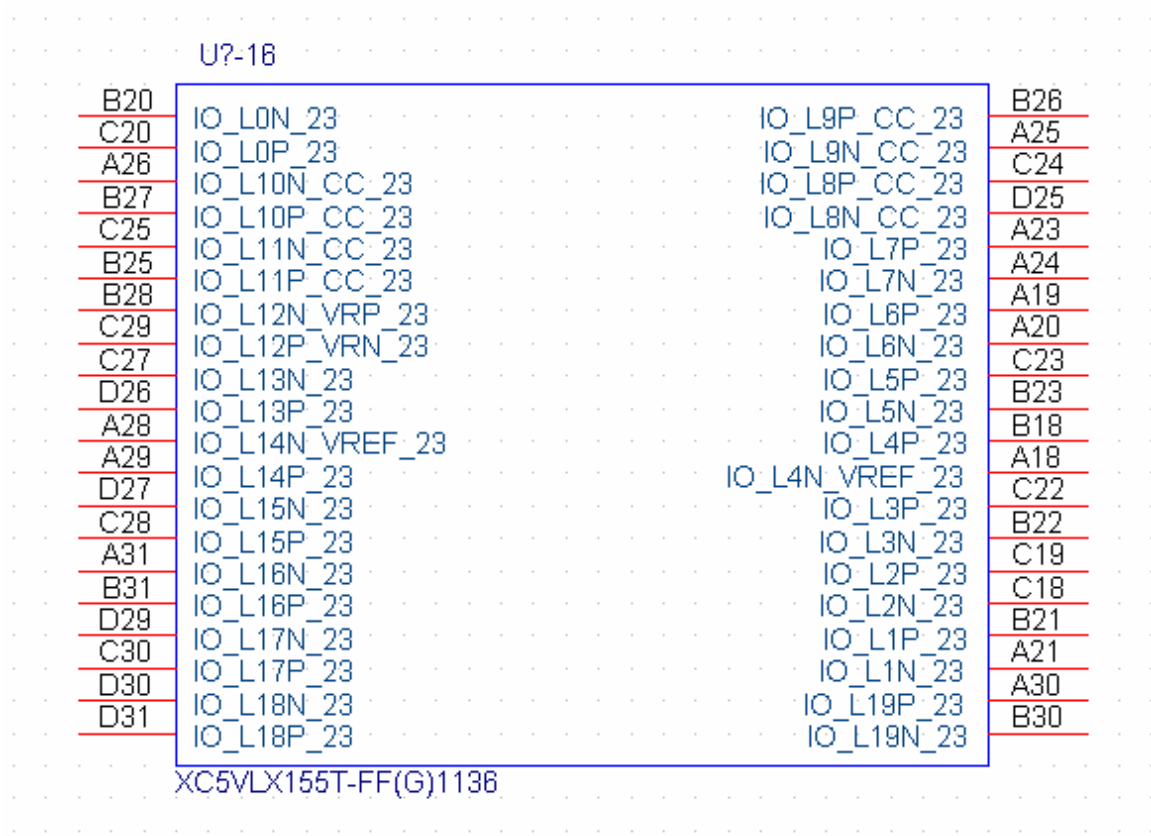
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15. I/O Bank 22

U?-15			
AP14	IO_L0N_22	IO_L9P_CC_22	AE8
AN14	IO_L0P_22	IO_L9N_CC_22	AD9
AD11	IO_L10N_CC_22	IO_L8P_CC_22	AL11
AD10	IO_L10P_CC_22	IO_L8N_CC_22	AL10
AJ11	IO_L11N_CC_22	IO_L7P_22	AC10
AK11	IO_L11P_CC_22	IO_L7N_22	AC9
AE9	IO_L12N_VRP_22	IO_L6P_22	AM12
AF8	IO_L12P_VRN_22	IO_L6N_22	AM11
AK9	IO_L13N_22	IO_L5P_22	AC8
AK8	IO_L13P_22	IO_L5N_22	AB8
AF10	IO_L14N_VREF_22	IO_L4P_22	AP12
AF9	IO_L14P_22	IO_L4N_VREF_22	AN12
AJ10	IO_L15N_22	IO_L3P_22	AA8
AJ9	IO_L15P_22	IO_L3N_22	AA9
AE11	IO_L16N_22	IO_L2P_22	AN13
AF11	IO_L16P_22	IO_L2N_22	AM13
AH10	IO_L17N_22	IO_L1P_22	AB10
AH9	IO_L17P_22	IO_L1N_22	AA10
AH8	IO_L18N_22	IO_L19P_22	AG10
AG8	IO_L18P_22	IO_L19N_22	AG11

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16. I/O Bank 23

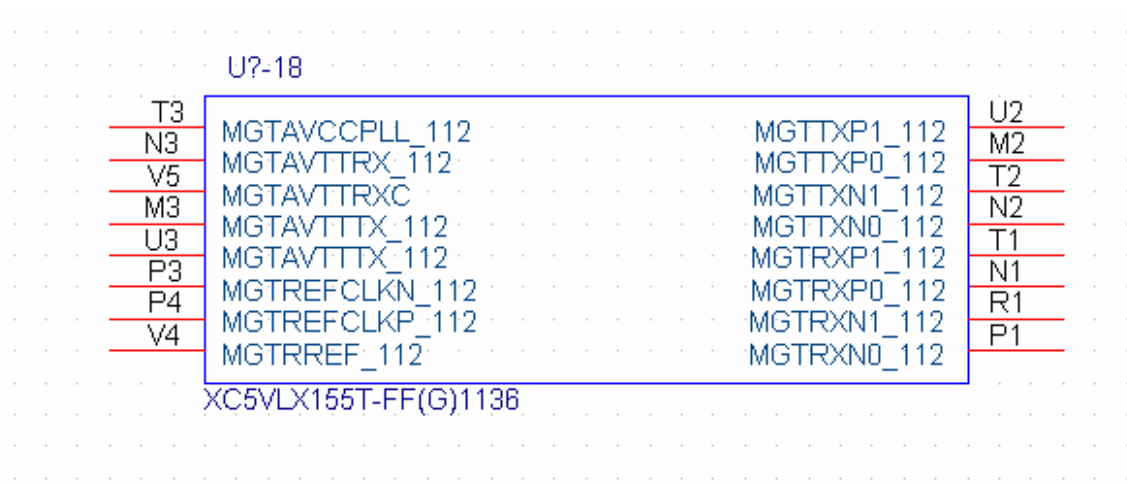


17. I/O Bank 25

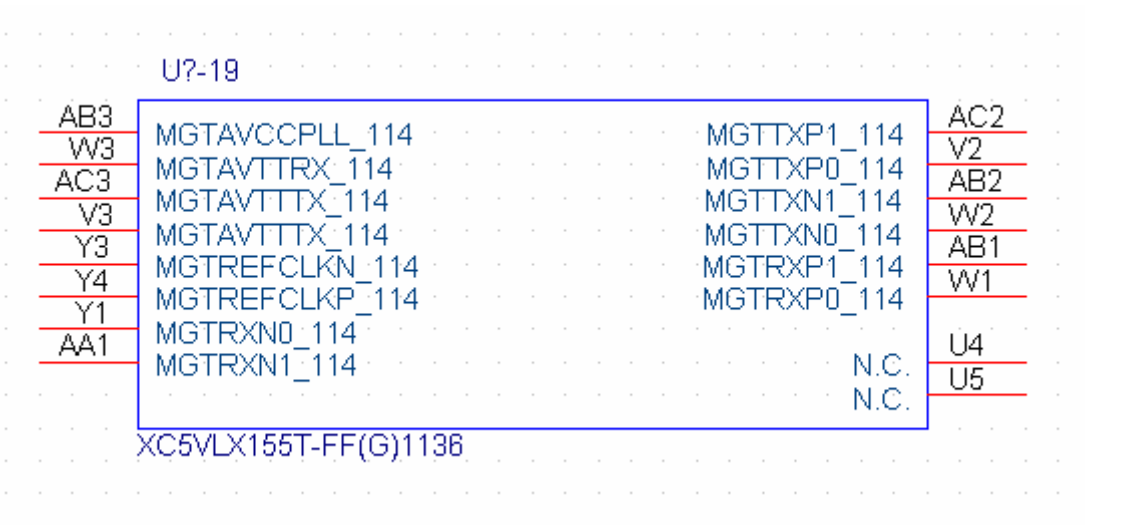
U?-17			
<u>AL30</u>	IO_L0N_25	IO_L9P_CC_25	<u>AM26</u>
<u>AL29</u>	IO_L0P_25	IO_L9N_CC_25	<u>AL26</u>
<u>AP25</u>	IO_L10N_CC_25	IO_L8P_CC_25	<u>AN25</u>
<u>AP26</u>	IO_L10P_CC_25	IO_L8N_CC_25	<u>AM25</u>
<u>AL24</u>	IO_L11N_CC_25	IO_L7P_25	<u>AN28</u>
<u>AL25</u>	IO_L11P_CC_25	IO_L7N_25	<u>AM28</u>
<u>AP24</u>	IO_L12N_VRP_25	IO_L6P_25	<u>AP27</u>
<u>AN24</u>	IO_L12P_VRN_25	IO_L6N_25	<u>AN27</u>
<u>AM20</u>	IO_L13N_25	IO_L5P_25	<u>AP29</u>
<u>AM21</u>	IO_L13P_25	IO_L5N_25	<u>AN29</u>
<u>AM23</u>	IO_L14N_VREF_25	IO_L4P_25	<u>AM27</u>
<u>AN23</u>	IO_L14P_25	IO_L4N_VREF_25	<u>AL28</u>
<u>AP20</u>	IO_L15N_25	IO_L3P_25	<u>AP30</u>
<u>AN20</u>	IO_L15P_25	IO_L3N_25	<u>AP31</u>
<u>AM22</u>	IO_L16N_25	IO_L2P_25	<u>AN30</u>
<u>AN22</u>	IO_L16P_25	IO_L2N_25	<u>AM30</u>
<u>AM18</u>	IO_L17N_25	IO_L1P_25	<u>AM31</u>
<u>AN18</u>	IO_L17P_25	IO_L1N_25	<u>AL31</u>
<u>AP21</u>	IO_L18N_25	IO_L19P_25	<u>AN19</u>
<u>AP22</u>	IO_L18P_25	IO_L19N_25	<u>AP19</u>

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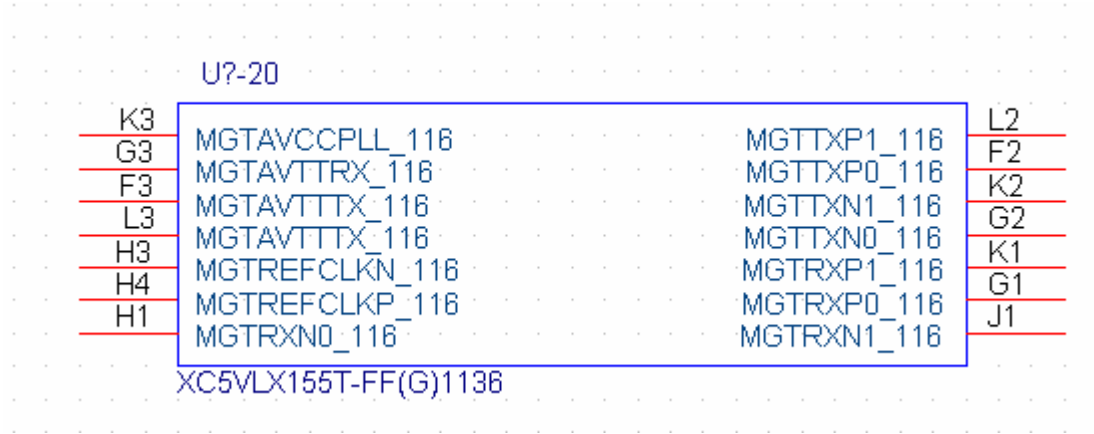
18. MGT 112



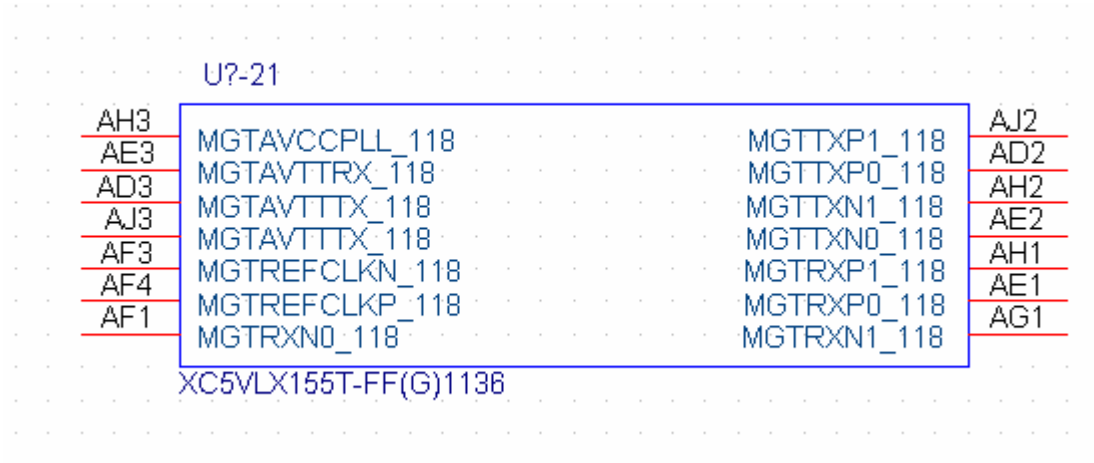
19. MGT 114



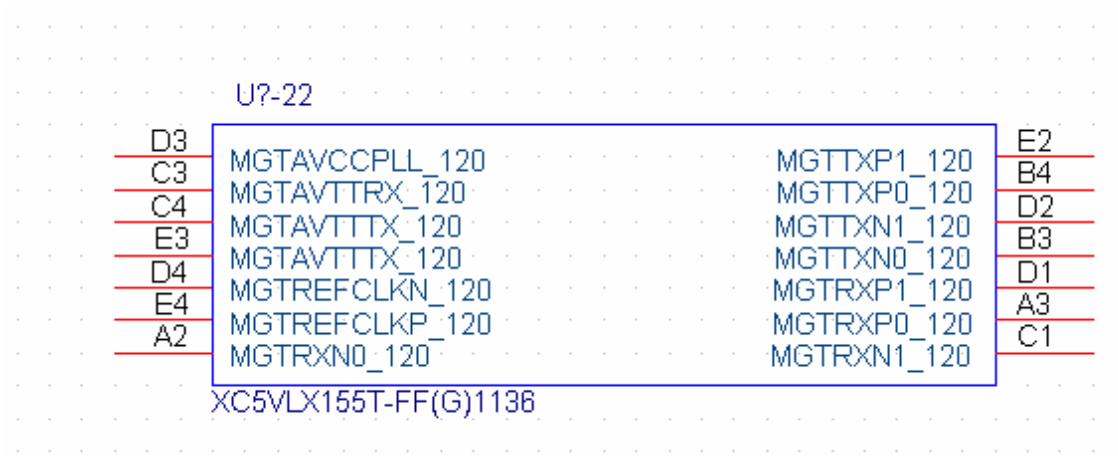
20. MGT 116



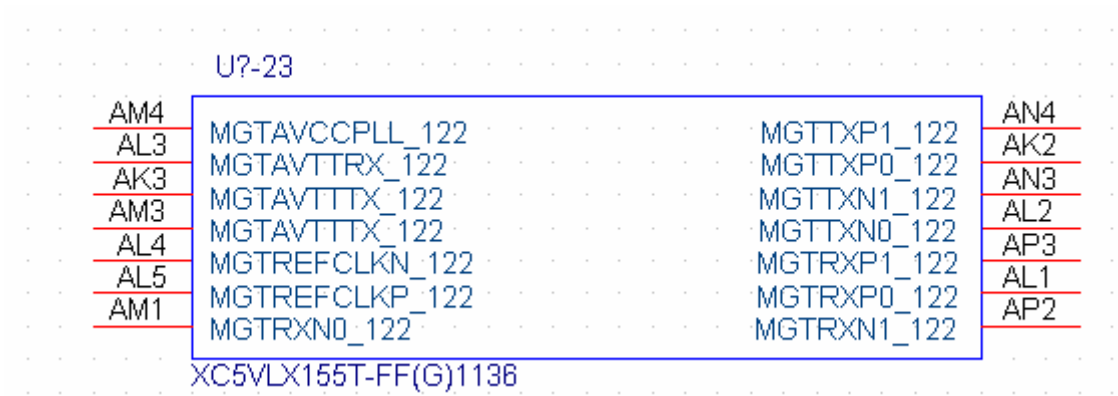
21. MGT 118



22. MGT 120



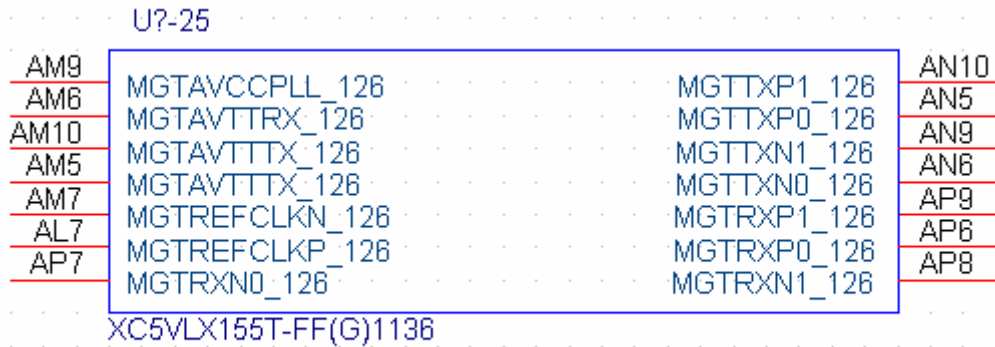
23. MGT 122



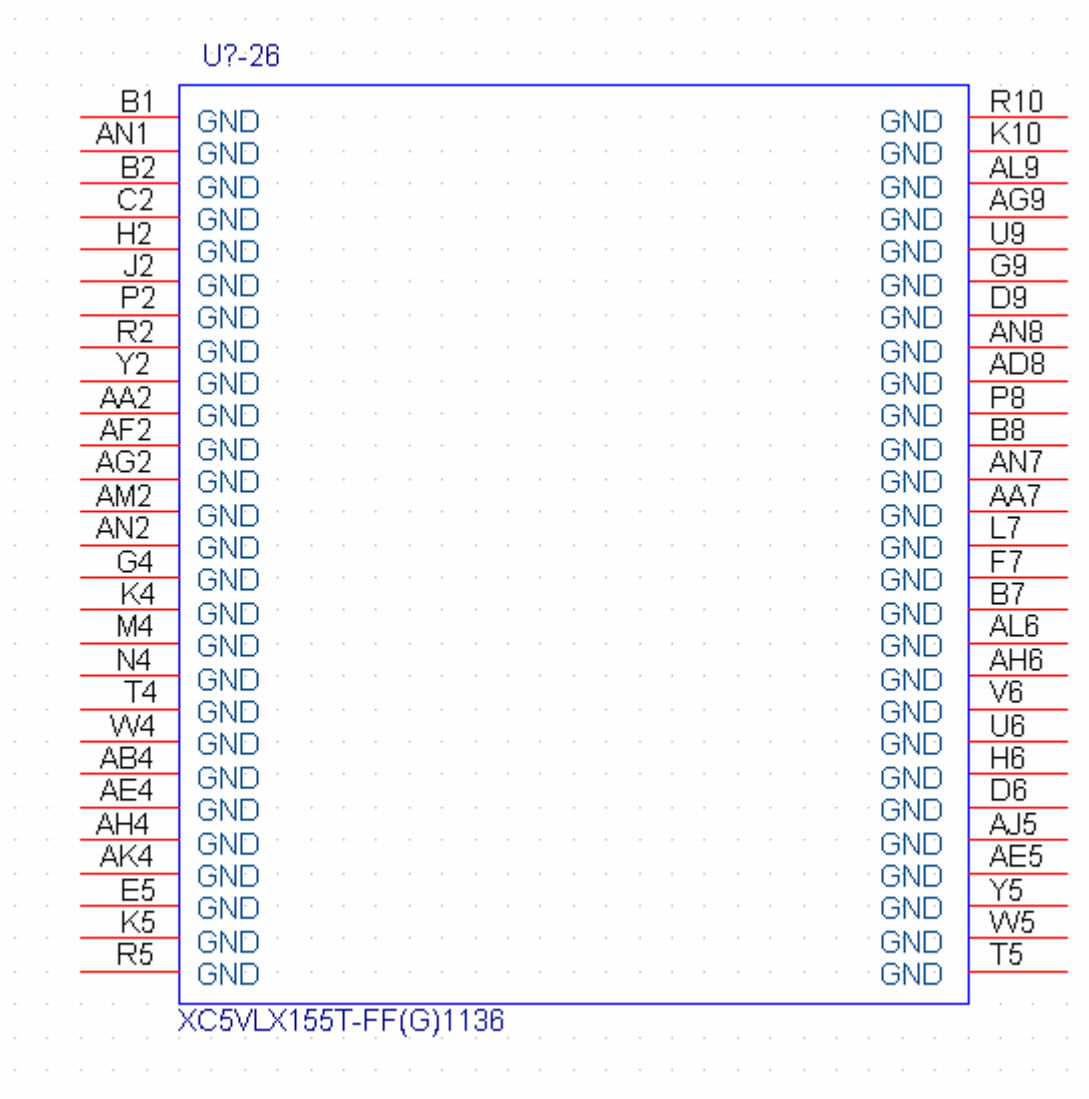
24. MGT 124



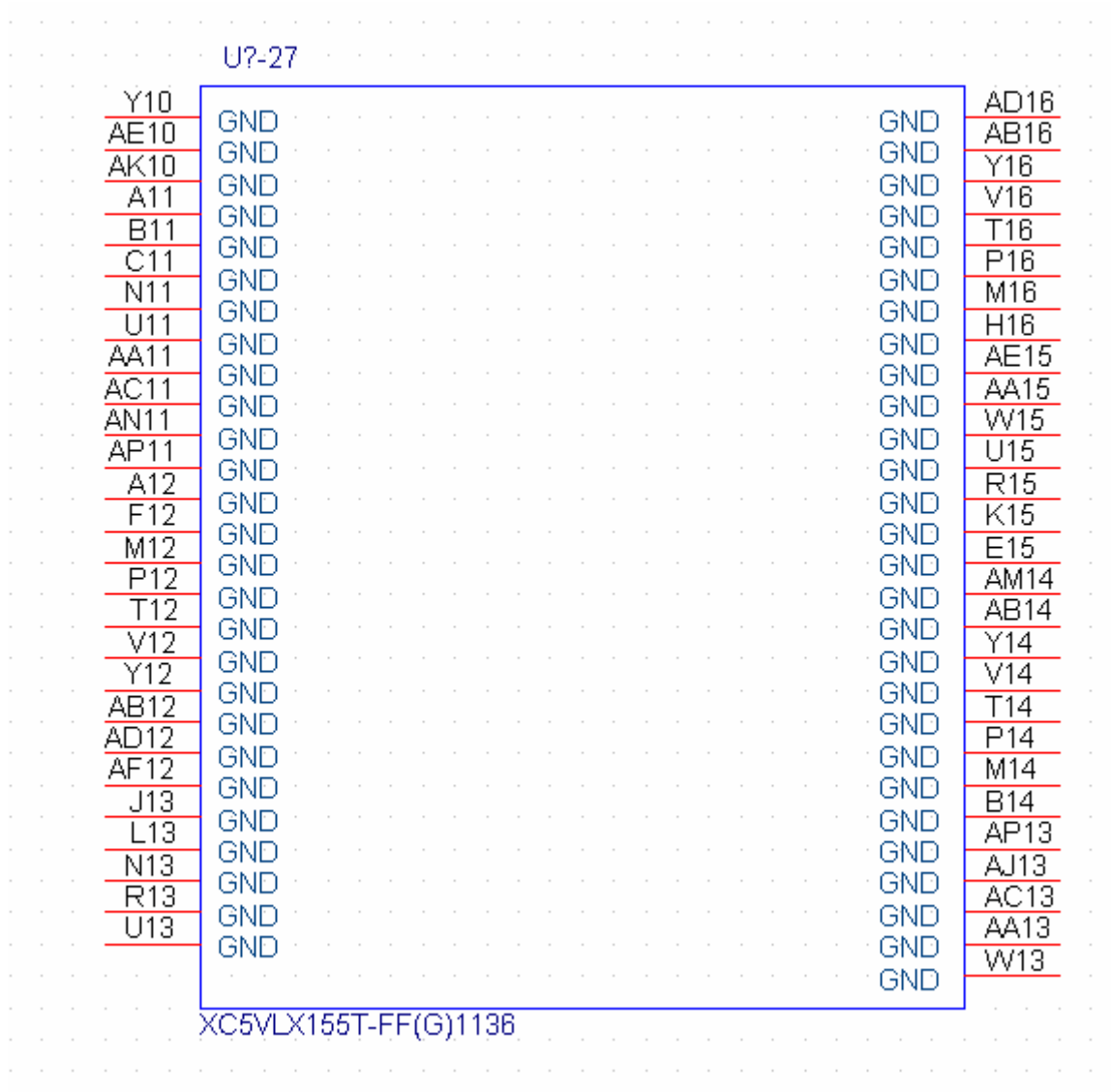
25. MGT 126



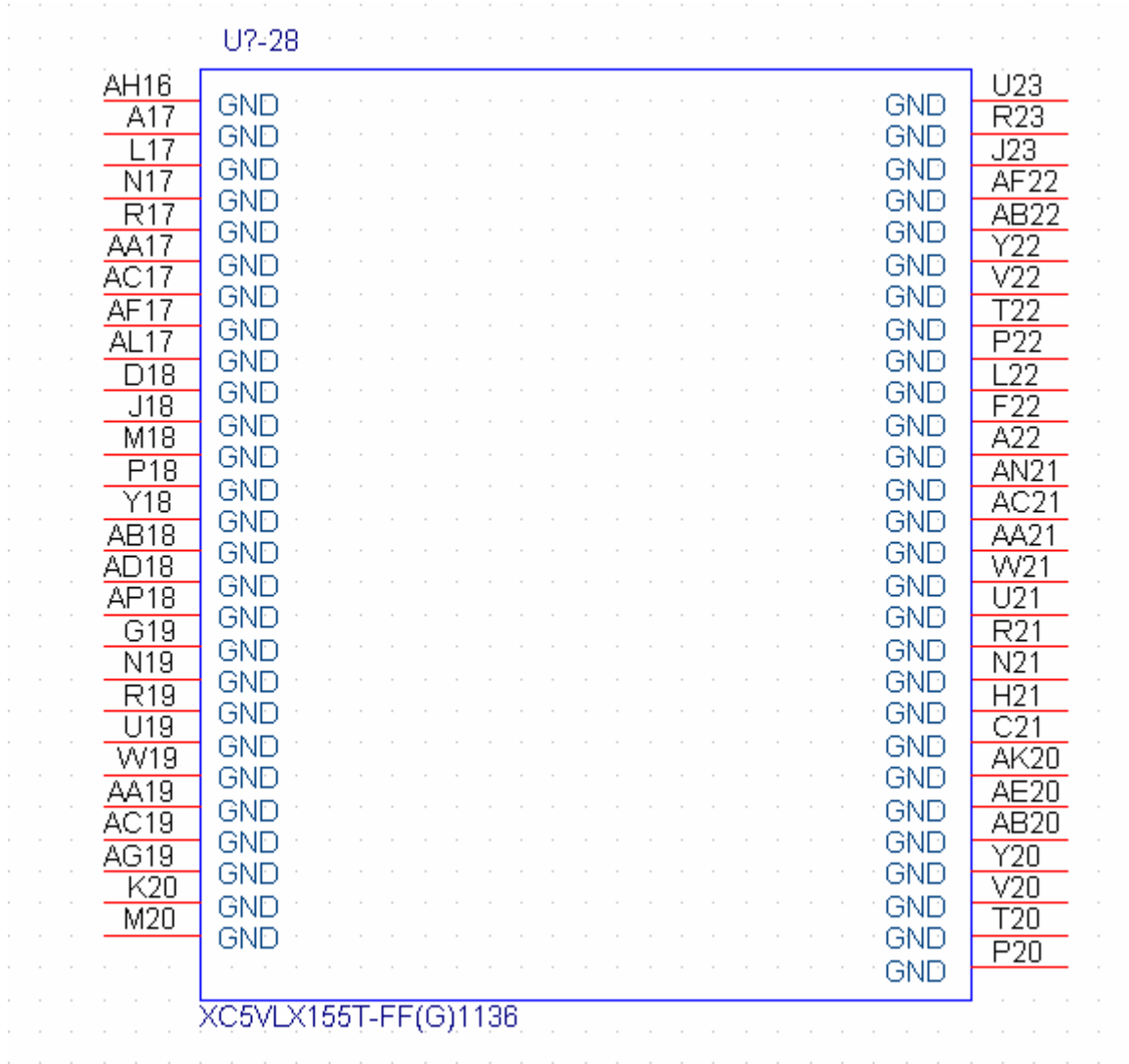
26. GND1



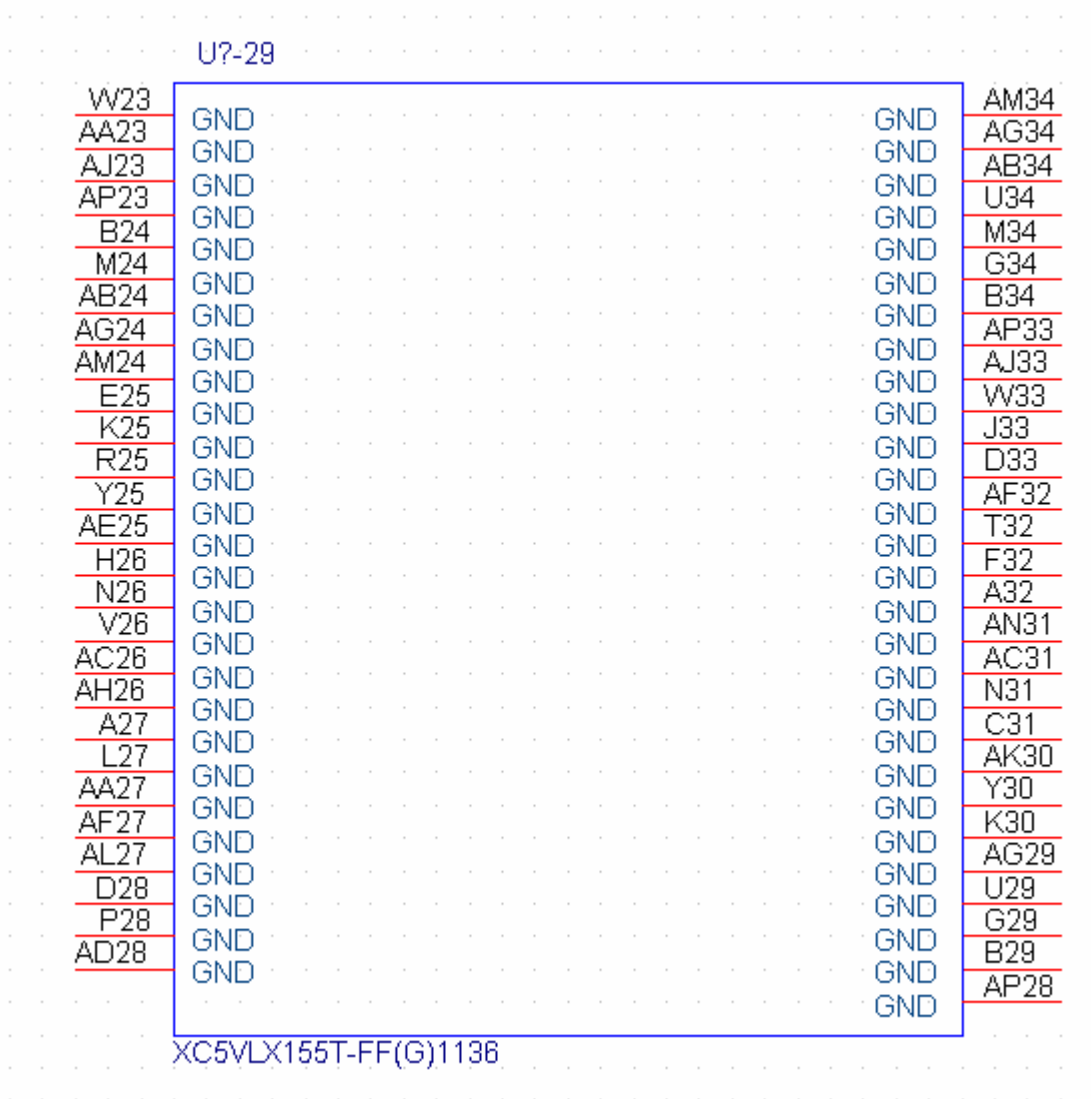
27. GND2



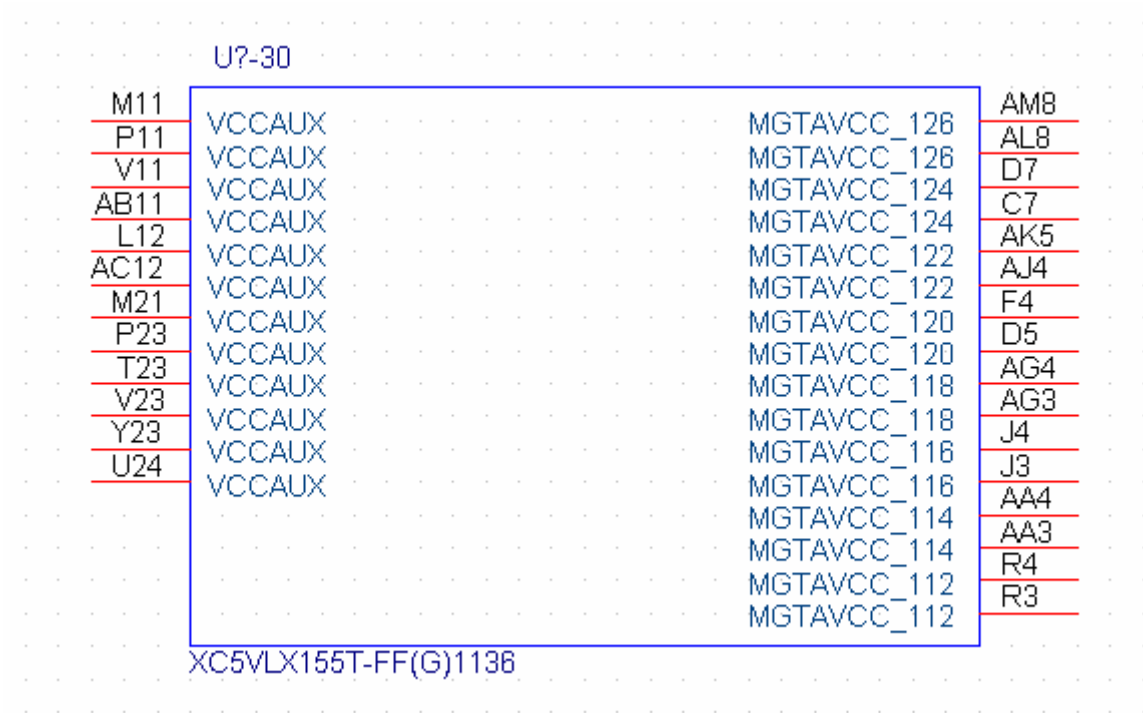
28. GND3



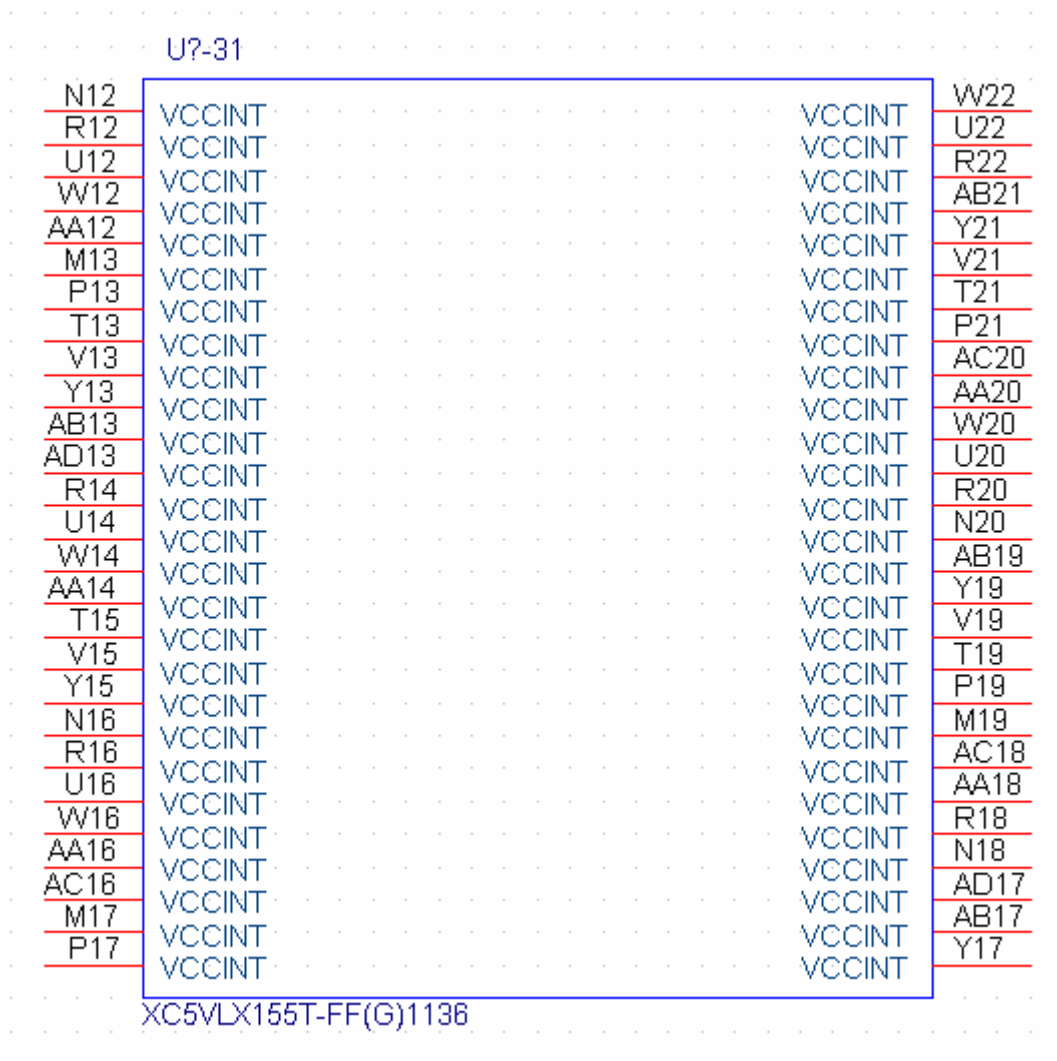
29. GND4



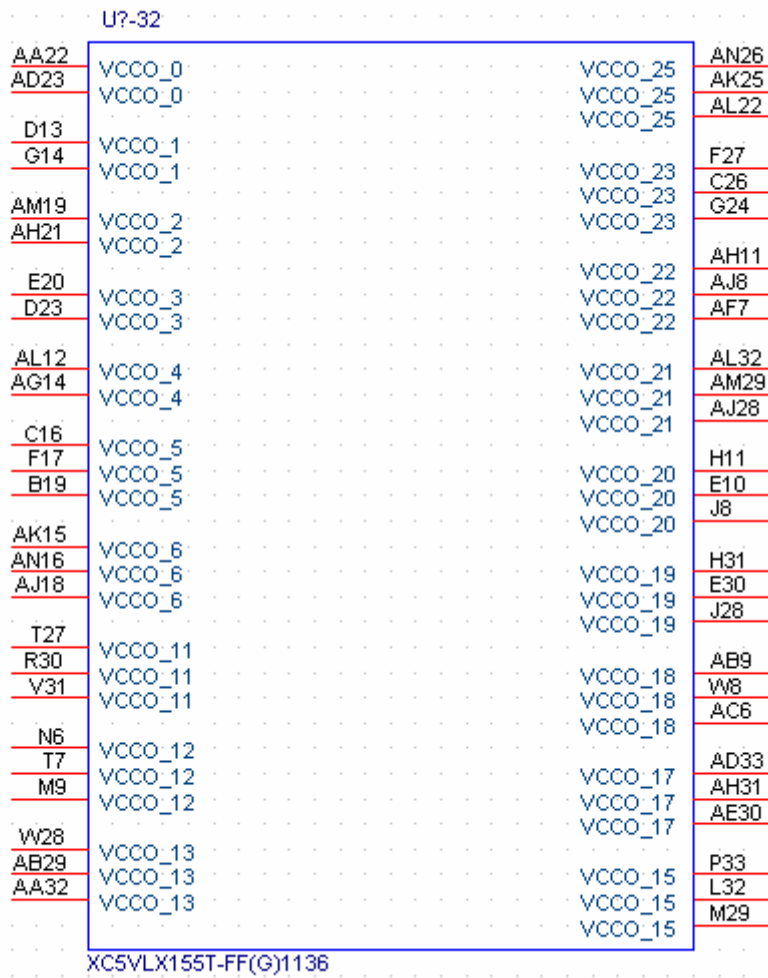
30. Power1



31. Power2



32. Power3



33. Revision History

	Revision	Date	By	Comments
1	1	August 4, 2009	AC	Initial Release