

Schematic Symbol for XC7K70T-FB(G)676

The Schematic symbol consists of 13 heterogeneous parts that are listed below:

1. Programming interface



2. I/O Bank 13

U?-2

N16	IO_0_13	IO_L9P_T1_DQS_13	P19
U16	IO_25_13	IO_L9N_T1_DQS_13	P20
M22	IO_L10N_T1_13	IO_L8P_T1_13	M24
M21	IO_L10P_T1_13	IO_L8N_T1_13	L24
N23	IO_L11N_T1_SRCC_13	IO_L7P_T1_13	N19
P23	IO_L11P_T1_SRCC_13	IO_L7N_T1_13	M20
N22	IO_L12N_T1_MRCC_13	IO_L6P_T0_13	R25
N21	IO_L12P_T1_MRCC_13	IO_L6N_T0_VREF_13	P25
P21	IO_L13N_T2_MRCC_13	IO_L5P_T0_13	N26
R21	IO_L13P_T2_MRCC_13	IO_L5N_T0_13	M26
R23	IO_L14N_T2_SRCC_13	IO_L4P_T0_13	P24
R22	IO_L14P_T2_SRCC_13	IO_L4N_T0_13	N24
T25	IO_L15N_T2_DQS_13	IO_L3P_T0_DQS_13	M25
T24	IO_L15P_T2_DQS_13	IO_L3N_T0_DQS_13	L25
R20	IO_L16N_T2_13	IO_L2P_T0_13	R26
T20	IO_L16P_T2_13	IO_L2N_T0_13	P26
T23	IO_L17N_T2_13	IO_L24P_T3_13	R18
T22	IO_L17P_T2_13	IO_L24N_T3_13	P18
U20	IO_L18N_T2_13	IO_L23P_T3_13	U17
U19	IO_L18P_T2_13	IO_L23N_T3_13	T17
T19	IO_L19N_T3_VREF_13	IO_L22P_T3_13	N18
T18	IO_L19P_T3_13	IO_L22N_T3_13	M19
K26	IO_L1N_T0_13	IO_L21P_T3_DQS_13	R16
K25	IO_L1P_T0_13	IO_L21N_T3_DQS_13	R17
N17	IO_L20N_T3_13	IO_L20P_T3_13	P16

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3. I/O Bank 14

U?-3

K21	IO_0_14	IO_L9P_T1_DQS_14	E21
L23	IO_25_14	IO_L9N_T1_DQS_D13_14	E22
B21	IO_L10N_T1_D15_14	IO_L8P_T1_D11_14	B20
C21	IO_L10P_T1_D14_14	IO_L8N_T1_D12_14	A20
D24	IO_L11N_T1_SRCC_14	IO_L7P_T1_D09_14	D21
D23	IO_L11P_T1_SRCC_14	IO_L7N_T1_D10_14	C22
E23	IO_L12N_T1_MRCC_14	IO_L6P_T0_FCS_B_14	C23
F22	IO_L12P_T1_MRCC_14	IO_L6N_T0_D08_VREF_14	C24
F23	IO_L13N_T2_MRCC_14	IO_L5P_T0_D06_14	D26
G22	IO_L13P_T2_MRCC_14	IO_L5N_T0_D07_14	C26
F24	IO_L14N_T2_SRCC_14	IO_L4P_T0_D04_14	A23
G24	IO_L14P_T2_SRCC_14	IO_L4N_T0_D05_14	A24
D25	IO_L15N_T2_DQS_DOUT_CSO_B_14	IO_L3P_T0_DQS_PUDC_B_14	B25
E25	IO_L15P_T2_DQS_RDWR_B_14	IO_L3N_T0_DQS_EMCCLK_14	B26
G26	IO_L16N_T2_A15_D31_14	IO_L2P_T0_D02_14	B22
G25	IO_L16P_T2_CSI_B_14	IO_L2N_T0_D03_14	A22
E26	IO_L17N_T2_A13_D29_14	IO_L24P_T3_A01_D17_14	K23
F25	IO_L17P_T2_A14_D30_14	IO_L24N_T3_A00_D16_14	J23
H26	IO_L18N_T2_A11_D27_14	IO_L23P_T3_A03_D19_14	L22
J26	IO_L18P_T2_A12_D28_14	IO_L23N_T3_A02_D18_14	K22
G21	IO_L19N_T3_A09_D25_VREF_14	IO_L22P_T3_A05_D21_14	J24
H21	IO_L19P_T3_A10_D26_14	IO_L22N_T3_A04_D20_14	J25
A25	IO_L1N_T0_D01_DIN_14	IO_L21P_T3_DQS_14	J21
B24	IO_L1P_T0_D00_MOSI_14	IO_L21N_T3_DQS_A06_D22_14	H22
H24	IO_L20N_T3_A07_D23_14	IO_L20P_T3_A08_D24_14	H23

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4. I/O Bank 15

U?-4

K15	IO_0_15	IO_L9P_T1_DQS_AD11P_15	J15
M16	IO_25_15	IO_L9N_T1_DQS_AD11N_15	J16
E16	IO_L10N_T1_AD4N_15	IO_L8P_T1_AD3P_15	G15
E15	IO_L10P_T1_AD4P_15	IO_L8N_T1_AD3N_15	F15
F18	IO_L11N_T1_SRCC_AD12N_15	IO_L7P_T1_AD10P_15	H16
G17	IO_L11P_T1_SRCC_AD12P_15	IO_L7N_T1_AD10N_15	G16
E17	IO_L12N_T1_MRCC_AD5N_15	IO_L6P_T0_15	D15
F17	IO_L12P_T1_MRCC_AD5P_15	IO_L6N_T0_VREF_15	D16
D18	IO_L13N_T2_MRCC_15	IO_L5P_T0_AD2P_15	C17
E18	IO_L13P_T2_MRCC_15	IO_L5N_T0_AD2N_15	C18
H18	IO_L14N_T2_SRCC_15	IO_L4P_T0_AD9P_15	C19
H17	IO_L14P_T2_SRCC_15	IO_L4N_T0_AD9N_15	B19
D20	IO_L15N_T2_DQS_ADV_B_15	IO_L3P_T0_DQS_AD1P_15	B17
D19	IO_L15P_T2_DQS_15	IO_L3N_T0_DQS_AD1N_15	A17
F20	IO_L16N_T2_A27_15	IO_L2P_T0_AD8P_15	A18
G19	IO_L16P_T2_A28_15	IO_L2N_T0_AD8N_15	A19
E20	IO_L17N_T2_A25_15	IO_L24P_T3_RS1_15	L17
F19	IO_L17P_T2_A26_15	IO_L24N_T3_RS0_15	K18
G20	IO_L18N_T2_A23_15	IO_L23P_T3_FOE_B_15	M17
H19	IO_L18P_T2_A24_15	IO_L23N_T3_FVE_B_15	L18
J20	IO_L19N_T3_A21_VREF_15	IO_L22P_T3_A17_15	K16
K20	IO_L19P_T3_A22_15	IO_L22N_T3_A16_15	K17
B16	IO_L1N_T0_AD0N_15	IO_L21P_T3_DQS_15	L19
C16	IO_L1P_T0_AD0P_15	IO_L21N_T3_DQS_A18_15	L20
J19	IO_L20N_T3_A19_15	IO_L20P_T3_A20_15	J18

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5. I/O Bank 16

U?-5

J8	IO_0_16	IO_L9P_T1_DQS_16	A9
J14	IO_25_16	IO_L9N_T1_DQS_16	A8
B9	IO_L10N_T1_16	IO_L8P_T1_16	D9
C9	IO_L10P_T1_16	IO_L8N_T1_16	D8
F10	IO_L11N_T1_SRCC_16	IO_L7P_T1_16	F9
G11	IO_L11P_T1_SRCC_16	IO_L7N_T1_16	F8
D10	IO_L12N_T1_MRCC_16	IO_L6P_T0_16	H12
E10	IO_L12P_T1_MRCC_16	IO_L6N_T0_VREF_16	H11
C11	IO_L13N_T2_MRCC_16	IO_L5P_T0_16	H14
C12	IO_L13P_T2_MRCC_16	IO_L5N_T0_16	G14
D11	IO_L14N_T2_SRCC_16	IO_L4P_T0_16	J11
E11	IO_L14P_T2_SRCC_16	IO_L4N_T0_16	J10
F13	IO_L15N_T2_DQS_16	IO_L3P_T0_DQS_16	J13
F14	IO_L15P_T2_DQS_16	IO_L3N_T0_DQS_16	H13
F12	IO_L16N_T2_16	IO_L2P_T0_16	G10
G12	IO_L16P_T2_16	IO_L2N_T0_16	G9
D13	IO_L17N_T2_16	IO_L24P_T3_16	A13
D14	IO_L17P_T2_16	IO_L24N_T3_16	A12
E12	IO_L18N_T2_16	IO_L23P_T3_16	B15
E13	IO_L18P_T2_16	IO_L23N_T3_16	A15
C13	IO_L19N_T3_VREF_16	IO_L22P_T3_16	B10
C14	IO_L19P_T3_16	IO_L22N_T3_16	A10
H8	IO_L1N_T0_16	IO_L21P_T3_DQS_16	B14
H9	IO_L1P_T0_16	IO_L21N_T3_DQS_16	A14
B11	IO_L20N_T3_16	IO_L20P_T3_16	B12

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6. I/O Bank 33

U?-6

<u>U9</u>	IO_0_VRN_33	IO_L9P_T1_DQS_33	<u>AC8</u>
<u>V12</u>	IO_25_VRP_33	IO_L9N_T1_DQS_33	<u>AD8</u>
<u>AC7</u>	IO_L10N_T1_33	IO_L8P_T1_33	<u>AA8</u>
<u>AB7</u>	IO_L10P_T1_33	IO_L8N_T1_33	<u>AA7</u>
<u>AB9</u>	IO_L11N_T1_SRCC_33	IO_L7P_T1_33	<u>AE7</u>
<u>AA9</u>	IO_L11P_T1_SRCC_33	IO_L7N_T1_33	<u>AF7</u>
<u>AD9</u>	IO_L12N_T1_MRCC_33	IO_L6P_T0_33	<u>V9</u>
<u>AC9</u>	IO_L12P_T1_MRCC_33	IO_L6N_T0_VREF_33	<u>W8</u>
<u>AC11</u>	IO_L13N_T2_MRCC_33	IO_L5P_T0_33	<u>Y11</u>
<u>AB11</u>	IO_L13P_T2_MRCC_33	IO_L5N_T0_33	<u>Y10</u>
<u>AB10</u>	IO_L14N_T2_SRCC_33	IO_L4P_T0_33	<u>Y8</u>
<u>AA10</u>	IO_L14P_T2_SRCC_33	IO_L4N_T0_33	<u>Y7</u>
<u>AC12</u>	IO_L15N_T2_DQS_33	IO_L3P_T0_DQS_33	<u>W10</u>
<u>AB12</u>	IO_L15P_T2_DQS_33	IO_L3N_T0_DQS_33	<u>W9</u>
<u>AA12</u>	IO_L16N_T2_33	IO_L2P_T0_33	<u>V8</u>
<u>AA13</u>	IO_L16P_T2_33	IO_L2N_T0_33	<u>V7</u>
<u>AD13</u>	IO_L17N_T2_33	IO_L24P_T3_33	<u>AF10</u>
<u>AC13</u>	IO_L17P_T2_33	IO_L24N_T3_33	<u>AF9</u>
<u>Y12</u>	IO_L18N_T2_33	IO_L23P_T3_33	<u>AE13</u>
<u>Y13</u>	IO_L18P_T2_33	IO_L23N_T3_33	<u>AF13</u>
<u>AE11</u>	IO_L19N_T3_VREF_33	IO_L22P_T3_33	<u>AE8</u>
<u>AD11</u>	IO_L19P_T3_33	IO_L22N_T3_33	<u>AF8</u>
<u>W11</u>	IO_L1N_T0_33	IO_L21P_T3_DQS_33	<u>AE12</u>
<u>V11</u>	IO_L1P_T0_33	IO_L21N_T3_DQS_33	<u>AF12</u>
<u>AE10</u>	IO_L20N_T3_33	IO_L20P_T3_33	<u>AD10</u>

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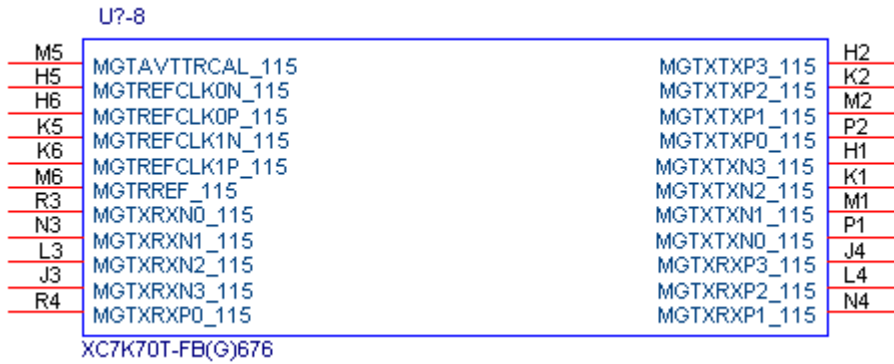
7. I/O Bank 34

U?-7

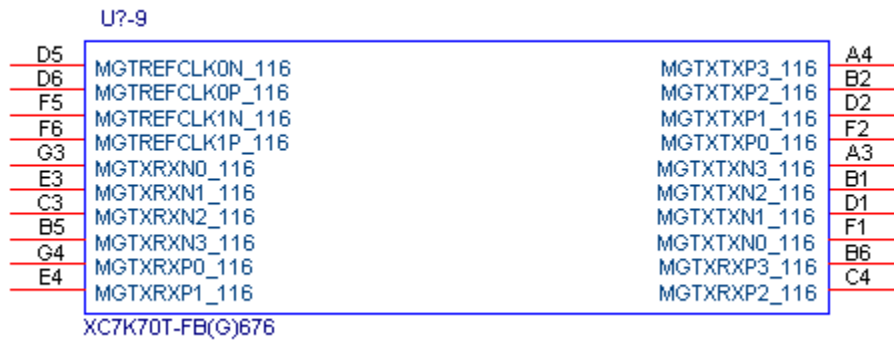
U4	IO_0_VRN_34	IO_L9P_T1_DQS_34	AB1
T7	IO_25_VRP_34	IO_L9N_T1_DQS_34	AC1
Y1	IO_L10N_T1_34	IO_L8P_T1_34	V2
W1	IO_L10P_T1_34	IO_L8N_T1_34	V1
AC2	IO_L11N_T1_SRCC_34	IO_L7P_T1_34	Y3
AB2	IO_L11P_T1_SRCC_34	IO_L7N_T1_34	Y2
AA2	IO_L12N_T1_MRCC_34	IO_L6P_T0_34	V4
AA3	IO_L12P_T1_MRCC_34	IO_L6N_T0_VREF_34	W4
AB4	IO_L13N_T2_MRCC_34	IO_L5P_T0_34	U7
AA4	IO_L13P_T2_MRCC_34	IO_L5N_T0_34	V6
AC3	IO_L14N_T2_SRCC_34	IO_L4P_T0_34	V3
AC4	IO_L14P_T2_SRCC_34	IO_L4N_T0_34	W3
AB5	IO_L15N_T2_DQS_34	IO_L3P_T0_DQS_34	W6
AA5	IO_L15P_T2_DQS_34	IO_L3N_T0_DQS_34	W5
AC6	IO_L16N_T2_34	IO_L2P_T0_34	U2
AB6	IO_L16P_T2_34	IO_L2N_T0_34	U1
Y5	IO_L17N_T2_34	IO_L24P_T3_34	AF3
Y6	IO_L17P_T2_34	IO_L24N_T3_34	AF2
AD5	IO_L18N_T2_34	IO_L23P_T3_34	AE6
AD6	IO_L18P_T2_34	IO_L23N_T3_34	AE5
AD3	IO_L19N_T3_VREF_34	IO_L22P_T3_34	AE3
AD4	IO_L19P_T3_34	IO_L22N_T3_34	AE2
U5	IO_L1N_T0_34	IO_L21P_T3_DQS_34	AF5
U6	IO_L1P_T0_34	IO_L21N_T3_DQS_34	AF4
AE1	IO_L20N_T3_34	IO_L20P_T3_34	AD1

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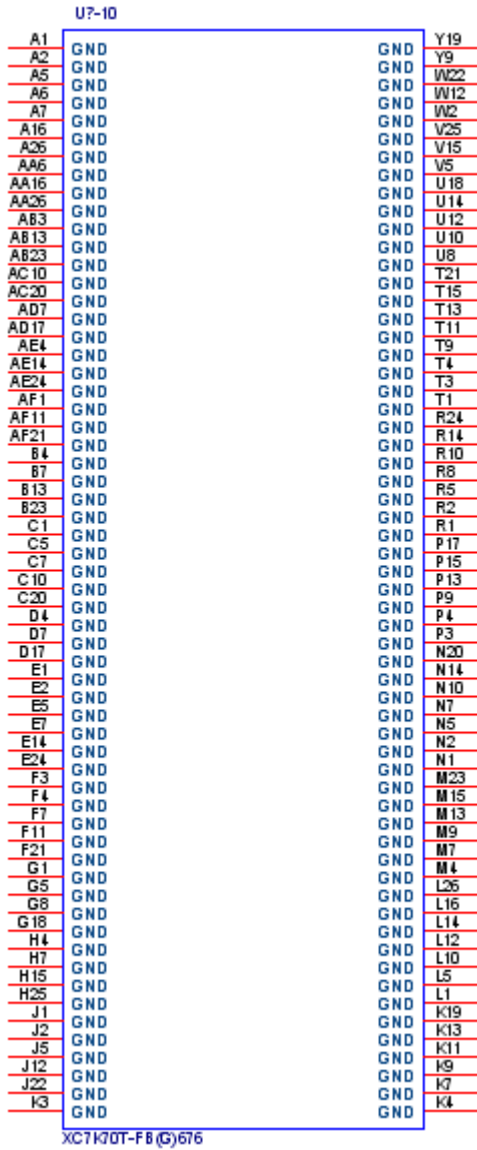
8. MGT 15



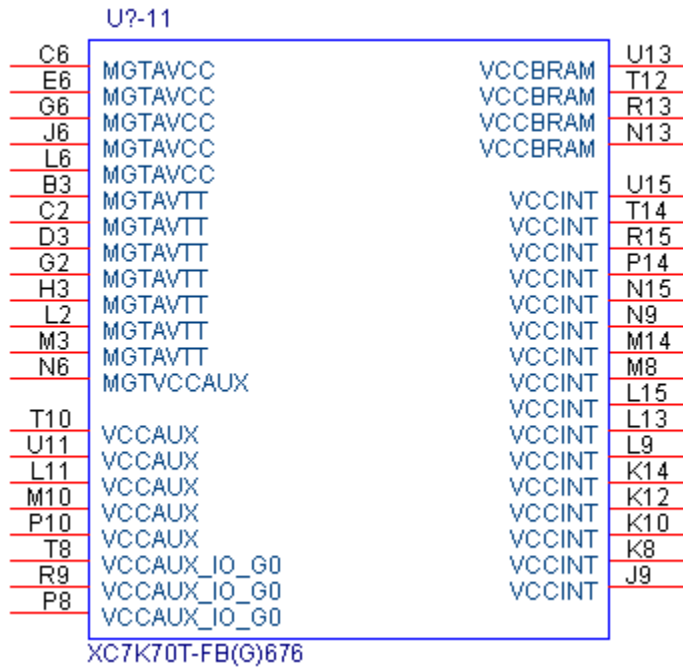
9. MGT 16



10. GND



11. Power 1



12. Power 2

U?-12

L7	VCCO_0	VCCO_34	Y4
T6	VCCO_0	VCCO_34	U3
AA21	VCCO_12	VCCO_34	AF6
AC25	VCCO_12	VCCO_34	AD2
AD22	VCCO_12	VCCO_34	AC5
AF26	VCCO_12	VCCO_34	AA1
U23	VCCO_12	VCCO_34	W7
V20	VCCO_12	VCCO_33	V10
Y24	VCCO_12	VCCO_33	AE9
K24	VCCO_13	VCCO_33	AD12
N25	VCCO_13	VCCO_33	AB8
P22	VCCO_13	VCCO_33	AA11
R19	VCCO_13	VCCO_33	Y14
T16	VCCO_13	VCCO_32	W17
T26	VCCO_13	VCCO_32	AF16
A21	VCCO_14	VCCO_32	AE19
C25	VCCO_14	VCCO_32	AC15
D22	VCCO_14	VCCO_32	AB18
F26	VCCO_14	VCCO_32	H10
G23	VCCO_14	VCCO_16	G13
L21	VCCO_14	VCCO_16	E9
B18	VCCO_15	VCCO_16	D12
E19	VCCO_15	VCCO_16	C15
F16	VCCO_15	VCCO_16	B8
H20	VCCO_15	VCCO_16	A11
J17	VCCO_15	VCCO_15	M18

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13. Not connected

U7-13

U21	NC	NC	W13
U22	NC	NC	W14
V22	NC	NC	V14
U24	NC	NC	V19
U25	NC	NC	V18
V23	NC	NC	W16
V24	NC	NC	W15
U26	NC	NC	W19
V26	NC	NC	W18
W25	NC	NC	V17
W26	NC	NC	V16
V21	NC	NC	Y18
W21	NC	NC	Y17
AA25	NC	NC	AB20
AB25	NC	NC	AB19
W23	NC	NC	AD19
W24	NC	NC	AC19
AB26	NC	NC	AA20
AC26	NC	NC	AA19
Y25	NC	NC	AE20
Y26	NC	NC	AD20
AA23	NC	NC	AC17
AB24	NC	NC	AB17
Y23	NC	NC	AD18
AA24	NC	NC	AC18
Y22	NC	NC	AC16
AA22	NC	NC	AB16
AC23	NC	NC	AA18
AC24	NC	NC	AA17
W20	NC	NC	AB15
Y21	NC	NC	AB14
AD23	NC	NC	Y16
AD24	NC	NC	Y15
AB22	NC	NC	AD14
AC22	NC	NC	AC14
AB21	NC	NC	AA15
AC21	NC	NC	AA14
AD21	NC	NC	AE16
AE21	NC	NC	AD16
AF24	NC	NC	AF20
AF25	NC	NC	AF19
AD26	NC	NC	AE15
AE26	NC	NC	AD15
AE23	NC	NC	AF18
AF23	NC	NC	AE18
AD25	NC	NC	AF15
AE25	NC	NC	AF14
AE22	NC	NC	AF17
AF22	NC	NC	AE17
Y20	NC	NC	V13
NC	NC	NC	NC

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14. Revision History

	Revision	Date	By	Comments
1	1	September 14, 2011	AC	Initial Release