
| Tool Version : Vivado v.2018.3 (win64) Build 2405991 Thu Dec 6 23:38:27 MST 2018
| Date : Thu Oct 17 09:48:08 2024
| Host : Samuel running 64-bit major release (build 9200)
| Command : report_io -file hello_world_arty_a7_io_placed.rpt
| Design : hello_world_arty_a7
| Device : xc7a100ti
| Speed File : -1L
| Package : csg324
| Package Version : FINAL 2012-07-17
| Package Pin Delay Version : VERS. 2.0 2012-07-17

IO Information

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1. Summary
 2. IO Assignments by Package Pin

1. Summary

+-----+	
Total User IO	
+-----+	
3	
+-----+	

[illegible]

A13		High Range	IO_L9P_T1_DQS_AD3P_15	User IO	15		
A14		High Range	IO_L9N_T1_DQS_AD3N_15	User IO	15		
A15		High Range	IO_L8P_T1_AD10P_15	User IO	15		
A16		High Range	IO_L8N_T1_AD10N_15	User IO	15		
A17		High Range	VCCO_15	VCCO	15		
A18		High Range	IO_L10N_T1_AD11N_15	User IO	15		
B1		High Range	IO_L9P_T1_DQS_AD7P_35	User IO	35		
B2		High Range	IO_L10N_T1_AD15N_35	User IO	35		
B3		High Range	IO_L10P_T1_AD15P_35	User IO	35		
B4		High Range	IO_L7N_T1_AD6N_35	User IO	35		
B5		GND	GND				
B6		High Range	IO_L2N_T0_AD12N_35	User IO	35		
B7		High Range	IO_L2P_T0_AD12P_35	User IO	35		
B8		High Range	IO_L12P_T1_MRCC_16	User IO	16		
B9		High Range	IO_L11N_T1_SRCC_16	User IO	16		
B10		High Range	VCCO_16	VCCO	16		
B11		High Range	IO_L4P_T0_15	User IO	15		

B12		High Range	IO_L3N_T0_DQS_AD1N_15	User IO	15	
B13		High Range	IO_L2P_T0_AD8P_15	User IO	15	
B14		High Range	IO_L2N_T0_AD8N_15	User IO	15	
B15		GND	GND			
0.0						
B16		High Range	IO_L7P_T1_AD2P_15	User IO	15	
B17		High Range	IO_L7N_T1_AD2N_15	User IO	15	
B18		High Range	IO_L10P_T1_AD11P_15	User IO	15	
C1		High Range	IO_L16N_T2_35	User IO	35	
C2		High Range	IO_L16P_T2_35	User IO	35	
C3		High Range	VCCO_35	VCCO	35	
	3.30					
C4		High Range	IO_L7P_T1_AD6P_35	User IO	35	
C5		High Range	IO_L1N_T0_AD4N_35	User IO	35	
C6		High Range	IO_L1P_T0_AD4P_35	User IO	35	
C7		High Range	IO_L4N_T0_35	User IO	35	
C8		GND	GND			
0.0						
C9		High Range	IO_L11P_T1_SRCC_16	User IO	16	
C10		High Range	IO_L13N_T2_MRCC_16	User IO	16	
C11		High Range	IO_L13P_T2_MRCC_16	User IO	16	

C12		High Range	IO_L3P_T0_DQS_AD1P_15	User IO		15		
C13		High Range	VCCO_15	VCCO		15		
	any**							
C14		High Range	IO_L1N_T0_AD0N_15	User IO		15		
C15		High Range	IO_L12N_T1_MRCC_15	User IO		15		
C16		High Range	IO_L20P_T3_A20_15	User IO		15		
C17		High Range	IO_L20N_T3_A19_15	User IO		15		
C18		GND	GND					
0.0								
D1		GND	GND					
0.0								
D2		High Range	IO_L14N_T2_SRCC_35	User IO		35		
D3		High Range	IO_L12N_T1_MRCC_35	User IO		35		
D4		High Range	IO_L11N_T1_SRCC_35	User IO		35		
D5		High Range	IO_L11P_T1_SRCC_35	User IO		35		
D6		High Range	VCCO_35	VCCO		35		
	3.30							
D7		High Range	IO_L6N_T0_VREF_35	User IO		35		
D8		High Range	IO_L4P_T0_35	User IO		35		
D9	reset	High Range	IO_L6N_T0_VREF_16	INPUT	LVC MOS33	16		
		NONE	FIXED		NONE			
D10	uart_tx	High Range	IO_L19N_T3_VREF_16	OUTPUT	LVC MOS33	16		
12	SLOW		FP_VTT_50	FIXED		NONE		

[illegible]

E11		Dedicated	TDI_0	Config	0			
E12		Dedicated	TMS_0	Config	0			
E13		Dedicated	TDO_0	Config	0			
E14		GND	GND					
0.0								
E15		High Range	IO_L11P_T1_SRCC_15	User IO	15			
E16		High Range	IO_L11N_T1_SRCC_15	User IO	15			
E17		High Range	IO_L16P_T2_A28_15	User IO	15			
E18		High Range	IO_L21P_T3_DQS_15	User IO	15			
F1		High Range	IO_L18P_T2_35	User IO	35			
F2		High Range	VCCO_35	VCCO	35			
	3.30							
F3		High Range	IO_L13N_T2_MRCC_35	User IO	35			
F4		High Range	IO_L13P_T2_MRCC_35	User IO	35			
F5		High Range	IO_0_35	User IO	35			
F6		High Range	IO_L19N_T3_VREF_35	User IO	35			
F7		GND	GND					
0.0								
F8		VCCINT	VCCINT					
F9		GND	GND					
0.0								
F10		VCCBRAM	VCCBRAM					
F11		GND	GND					
0.0								

[illegible]

G13		High Range	IO_0_15	User IO		15			
G14		High Range	IO_L15N_T2_DQS_ADV_B_15	User IO		15			
G15		High Range	VCCO_15	VCCO		15			
		any**							
G16		High Range	IO_L13N_T2_MRCC_15	User IO		15			
G17		High Range	IO_L18N_T2_A23_15	User IO		15			
G18		High Range	IO_L22P_T3_A17_15	User IO		15			
H1		High Range	IO_L17P_T2_35	User IO		35			
H2		High Range	IO_L15P_T2_DQS_35	User IO		35			
H3			GND	GND					
0.0									
H4		High Range	IO_L21N_T3_DQS_35	User IO		35			
H5		High Range	IO_L24N_T3_35	User IO		35			
H6		High Range	IO_L24P_T3_35	User IO		35			
H7			GND	GND					
0.0									
H8			VCCINT	VCCINT					
H9		Dedicated	GNDADC_0	XADC		0			
H10		Dedicated	VCCADC_0	XADC		0			
H11			GND	GND					
0.0									
H12			VCCAUX	VCCAUX					
		1.80							

[illegible]

J13		High Range	IO_L17N_T2_A25_15	User IO	15		
J14		High Range	IO_L19P_T3_A22_15	User IO	15		
J15		High Range	IO_L24N_T3_RS0_15	User IO	15		
J16		GND	GND				
0.0							
J17		High Range	IO_L23P_T3_FOE_B_15	User IO	15		
J18		High Range	IO_L23N_T3_FWE_B_15	User IO	15		
K1		High Range	IO_L23N_T3_35	User IO	35		
K2		High Range	IO_L23P_T3_35	User IO	35		
K3		High Range	IO_L2P_T0_34	User IO	34		
K4		High Range	VCCO_34	VCCO	34		
	any**						
K5		High Range	IO_L5P_T0_34	User IO	34		
K6		High Range	IO_0_34	User IO	34		
K7		GND	GND				
0.0							
K8		VCCINT	VCCINT				
K9		Dedicated	VN_0	XADC	0		
K10		Dedicated	VREFP_0	XADC	0		
K11		GND	GND				
0.0							
K12		VCCAUX	VCCAUX				
	1.80						
K13		High Range	IO_L17P_T2_A26_15	User IO	15		

[illegible]

L14		High Range	IO_L2P_T0_D02_14	User IO	14		
L15		High Range	IO_L3P_T0_DQS_PUDC_B_14	User IO	14		
L16		High Range	IO_L3N_T0_DQS_EMCCCLK_14	User IO	14		
L17		High Range	VCCO_14	VCCO	14		
L18		any**					
M1		High Range	IO_L1N_T0_34	User IO	34		
M2		High Range	IO_L4N_T0_34	User IO	34		
M3		High Range	IO_L4P_T0_34	User IO	34		
M4		High Range	IO_L16P_T2_34	User IO	34		
M5	0.0	GND	GND				
M6		High Range	IO_L18P_T2_34	User IO	34		
M7	0.0	GND	GND				
M8		VCCINT	VCCINT				
M9	0.0	GND	GND				
M10		VCCINT	VCCINT				
M11	0.0	GND	GND				
M12	1.80	VCCAUX	VCCAUX				

M13		High Range	IO_L6N_T0_D08_VREF_14	User IO		14	
M14		High Range	IO_L2N_T0_D03_14	User IO		14	
M15		GND	GND				
0.0							
M16		High Range	IO_L10P_T1_D14_14	User IO		14	
M17		High Range	IO_L10N_T1_D15_14	User IO		14	
M18		High Range	IO_L4N_T0_D05_14	User IO		14	
N1		High Range	IO_L3N_T0_DQS_34	User IO		34	
N2		High Range	IO_L3P_T0_DQS_34	User IO		34	
N3		High Range	VCCO_34	VCCO		34	
	any**						
N4		High Range	IO_L16N_T2_34	User IO		34	
N5		High Range	IO_L13P_T2_MRCC_34	User IO		34	
N6		High Range	IO_L18N_T2_34	User IO		34	
N7		VCCINT	VCCINT				
N8		GND	GND				
0.0							
N9		VCCINT	VCCINT				
N10		GND	GND				
0.0							
N11		VCCINT	VCCINT				
N12		GND	GND				
0.0							

[illegible]

P14		High Range	IO_L8N_T1_D12_14	User IO	14		
P15		High Range	IO_L13P_T2_MRCC_14	User IO	14		
P16		High Range	VCCO_14	VCCO	14		
	any**						
P17		High Range	IO_L12P_T1_MRCC_14	User IO	14		
P18		High Range	IO_L9N_T1_DQS_D13_14	User IO	14		
R1		High Range	IO_L17P_T2_34	User IO	34		
R2		High Range	IO_L15N_T2_DQS_34	User IO	34		
R3		High Range	IO_L11P_T1_SRCC_34	User IO	34		
R4		GND	GND				
0.0							
R5		High Range	IO_L19N_T3_VREF_34	User IO	34		
R6		High Range	IO_L19P_T3_34	User IO	34		
R7		High Range	IO_L23P_T3_34	User IO	34		
R8		High Range	IO_L24P_T3_34	User IO	34		
R9		Dedicated	VCCO_0	VCCO	0		
	3.30						
R10		High Range	IO_25_14	User IO	14		
R11		High Range	IO_0_14	User IO	14		
R12		High Range	IO_L5P_T0_D06_14	User IO	14		
R13		High Range	IO_L5N_T0_D07_14	User IO	14		
R14		GND	GND				
0.0							

R15		High Range	IO_L13N_T2_MRCC_14	User IO	14		
R16		High Range	IO_L15P_T2_DQS_RDWR_B_14	User IO	14		
R17		High Range	IO_L12N_T1_MRCC_14	User IO	14		
R18		High Range	IO_L7P_T1_D09_14	User IO	14		
T1		High Range	IO_L17N_T2_34	User IO	34		
T2		High Range	VCCO_34	VCCO	34		
T3		High Range	IO_L11N_T1_SRCC_34	User IO	34		
T4		High Range	IO_L12N_T1_MRCC_34	User IO	34		
T5		High Range	IO_L12P_T1_MRCC_34	User IO	34		
T6		High Range	IO_L23N_T3_34	User IO	34		
T7		GND	GND				
T8		High Range	IO_L24N_T3_34	User IO	34		
T9		High Range	IO_L24P_T3_A01_D17_14	User IO	14		
T10		High Range	IO_L24N_T3_A00_D16_14	User IO	14		
T11		High Range	IO_L19P_T3_A10_D26_14	User IO	14		
T12		High Range	VCCO_14	VCCO	14		
T13		High Range	IO_L23P_T3_A03_D19_14	User IO	14		
T14		High Range	IO_L14P_T2_SRCC_14	User IO	14		

T15		High Range	IO_L14N_T2_SRCC_14	User IO	14		
T16		High Range	IO_L15N_T2_DQS_DOUT_CSO_B_14	User IO	14		
T17	0.0	GND	GND				
T18		High Range	IO_L7N_T1_D10_14	User IO	14		
U1		High Range	IO_L7P_T1_34	User IO	34		
U2		High Range	IO_L9P_T1_DQS_34	User IO	34		
U3		High Range	IO_L8N_T1_34	User IO	34		
U4		High Range	IO_L8P_T1_34	User IO	34		
U5		High Range	VCCO_34	VCCO	34		
U6		High Range	IO_L22N_T3_34	User IO	34		
U7		High Range	IO_L22P_T3_34	User IO	34		
U8		High Range	IO_25_34	User IO	34		
U9		High Range	IO_L21P_T3_DQS_34	User IO	34		
U10	0.0	GND	GND				
U11		High Range	IO_L19N_T3_A09_D25_VREF_14	User IO	14		
U12		High Range	IO_L20P_T3_A08_D24_14	User IO	14		
U13		High Range	IO_L23N_T3_A02_D18_14	User IO	14		

U14		High Range	IO_L22P_T3_A05_D21_14	User IO	14		
U15		High Range	VCCO_14	VCCO	14		
		any**					
U16		High Range	IO_L18P_T2_A12_D28_14	User IO	14		
U17		High Range	IO_L17P_T2_A14_D30_14	User IO	14		
U18		High Range	IO_L17N_T2_A13_D29_14	User IO	14		
V1		High Range	IO_L7N_T1_34	User IO	34		
V2		High Range	IO_L9N_T1_DQS_34	User IO	34		
V3		GND	GND				
0.0							
V4		High Range	IO_L10N_T1_34	User IO	34		
V5		High Range	IO_L10P_T1_34	User IO	34		
V6		High Range	IO_L20N_T3_34	User IO	34		
V7		High Range	IO_L20P_T3_34	User IO	34		
V8		High Range	VCCO_34	VCCO	34		
		any**					
V9		High Range	IO_L21N_T3_DQS_34	User IO	34		
V10		High Range	IO_L21P_T3_DQS_14	User IO	14		
V11		High Range	IO_L21N_T3_DQS_A06_D22_14	User IO	14		

V12		High Range	IO_L20N_T3_A07_D23_14	User IO		14		
V13		GND	GND					
0.0								
V14		High Range	IO_L22N_T3_A04_D20_14	User IO		14		
V15		High Range	IO_L16P_T2_CSI_B_14	User IO		14		
V16		High Range	IO_L16N_T2_A15_D31_14	User IO		14		
V17		High Range	IO_L18N_T2_A11_D27_14	User IO		14		
V18		High Range	VCCO_14	VCCO		14		
		any**						
+-----+-----+-----+-----+-----+-----+-----+-----+-----								
-+-----+-----+-----+-----+-----+-----+-----+-----+-----								
-----+-----+-----+								

* Default value

** Special VCCO requirements may apply. Please consult the device family datasheet for specific guideline on VCCO requirements.