

Connector		XC3S1600E-4FG320C			
Signal	P1	Name	Pin	Bank	IO
TMS	2				
TDO	4				
GND	6				
GND	8				
S1_P	10	L14P_0/GCLK10	C9	0	CLK
S1_N	12	L14N_0/GCLK11	D9	0	CLK
S2_N	14	L02N_3	D2	3	IO
S2_P	16	L02P_3	D1	3	IO
S3_P	18	L03P_3	E2	3	IO
S3_N	20	L03N_3	E1	3	IO
S4_N	22	L05N_3	F2	3	IO
S4_P	24	L05P_3	F1	3	IO
S5_P	26	L10P_3	H2	3	IO
S5_N	28	L10N_3	H1	3	IO
S6_N	30	L08N_3	H5	3	IO
S6_P	32	L08P_3	H6	3	IO
S7_P	34	L15P_3	L1	3	IO
S7_N	36	L15N_3	L2	3	IO
S8_N	38	L13N_3/LHCLK5	K4	3	CLK
S8_P	40	L13P_3/LHCLK4	K3	3	CLK
S9_P	42	L14P_3/LHCLK6	K6	3	CLK
S9_N	44	L14N_3/LHCLK7	K5	3	CLK
S10_N	46	L21N_3	P1	3	IO
S10_P	48	L21P_3	P2	3	IO
S11_P	50	L23P_3	R3	3	IO
S11_N	52	L23N_3	R2	3	IO
S12_N	54	L24N_3	T1	3	IO
S12_P	56	L24P_3	T2	3	IO
S13_P	58	L22P_3	P3	3	IO
S13_N	60	L22N_3	P4	3	IO
S14_N	62	L07N_2	P7	2	IO
S14_P	64	L07P_2	N7	2	IO
S15_P	66	L06P_2	V5	2	IO
S15_N	68	L06N_2	V6	2	IO
S16_N	70	L13N_2/GCLK15	V9	2	CLK
S16_P	72	L13P_2/GCLK14	U9	2	CLK
GND	74				
GND	76				
CFG_SI	78	L04N_2	T5	2	O
CFG_CS	80	IO	U5	2	O

Connector		XC3S1600E-4FG320C			
Signal	P1	Name	Pin	Bank	IO
TCK	1				
TDI	3				
SW9	5	IO	C4	0	I
SW10	7	L23N_0	D5	0	I
S17_P	9	L18P_0	C7	0	IO
S17_N	11	L18N_0	D7	0	IO
S18_N	13	L04N_3	E3	3	IO
S18_P	15	L04P_3	E4	3	IO
S19_P	17	L19P_0	F7	0	IO
S19_N	19	L19N_0	E7	0	IO
S20_N	21	L06N_3	G4	3	IO
S20_P	23	L06P_3	G3	3	IO
S21_P	25	L07P_3	G6	3	IO
S21_N	27	L07N_3	G5	3	IO
S22_N	29	L09N_3	H3	3	IO
S22_P	31	L09P_3	H4	3	IO
S23_P	33	L17P_3	L6	3	IO
S23_N	35	L17N_3	L5	3	IO
S24_N	37	L11N_3/LHCLK1	J4	3	CLK
S24_P	39	L11P_3/LHCLK0	J5	3	CLK
S25_P	41	L12P_3/LHCLK2	J1	3	CLK
S25_N	43	L12N_3/LHCLK3	J2	3	CLK
S26_N	45	L16N_3	L4	3	IO
S26_P	47	L16P_3	L3	3	IO
S27_P	49	L18P_3	M4	3	IO
S27_N	51	L18N_3	M3	3	IO
S28_N	53	L19N_3	M6	3	IO
S28_P	55	L19P_3	M5	3	IO
S29_P	57	L20P_3	N4	3	IO
S29_N	59	L20N_3	N5	3	IO
S30_N	61	L05N_2	P6	2	IO
S30_P	63	L05P_2	R6	2	IO
S31_P	65	L10P_2	R8	2	IO
S31_N	67	L10N_2	T8	2	IO
S32_N	69	L09N_2	N8	2	IO
S32_P	71	L09P_2	P8	2	IO
VCCAUX	73				
VCCAUX	75				
CFG_SO	77	IP	V2	2	I
CFG_CLK	79	L04P_2	R5	2	O

Connector		XC3S1600E-4FG320C			
Signal	P2	Name	Pin	Bank	IO
VDD	1				
VDD	3				
VDD	5				
VDD	7				
S33_P	9	L11P_0/GCLK4	D10	0	CLK
S33_N	11	L11N_0/GCLK5	E10	0	CLK
S34_N	13	L19N_1	F17	1	IO
S34_P	15	L19P_1	F18	1	IO
S35_P	17	L08P_0	E11	0	IO
S35_N	19	L08N_0	F11	0	IO
S36_N	21	L16N_1	H17	1	IO
S36_P	23	L16P_1	H16	1	IO
S37_P	25	L15P_1	J13	1	IO
S37_N	27	L15N_1	J12	1	IO
S38_N	29	L09N_1	L15	1	IO
S38_P	31	L09P_1	L16	1	IO
S39_P	33	L10P_1	L18	1	IO
S39_N	35	L10N_1	L17	1	IO
S40_N	37	L13N_1/RHCLK5	J16	1	CLK
S40_P	39	L13P_1/RHCLK4	J17	1	CLK
S41_P	41	L12P_1/RHCLK6	J15	1	CLK
S41_N	43	L12N_1/RHCLK7	J14	1	CLK
S42_N	45	L08N_1	M18	1	IO
S42_P	47	L08P_1	N18	1	IO
S43_P	49	L18P_2	P11	2	IO
S43_N	51	L18N_2	N11	2	IO
S44_N	53	L06N_1	P18	1	IO
S44_P	55	L06P_1	P17	1	IO
S45_P	57	L02P_1	R18	1	IO
S45_N	59	L02N_1	T18	1	IO
S46_N	61	L01N_1	T17	1	IO
S46_P	63	L01P_1	U18	1	IO
S47_P	65	L03P_1	R15	1	IO
S47_N	67	L03N_1	R16	1	IO
S48_N	69	L15N_2/GCLK3	P10	2	CLK
S48_P	71	L15P_2/GCLK2	R10	2	CLK
VCCAUX	73				
VCCAUX	75				
12V	77				
12V	79				

Connector		XC3S1600E-4FG320C			
Signal	P2	Name	Pin	Bank	IO
GND	2				
GND	4				
GND	6				I
GND	8				I
S49_P	10	L09P_0	C11	0	IO
S49_N	12	L09N_0	D11	0	IO
S50_N	14	L17N_0	F8	0	IO
S50_P	16	L17P_0	E8	0	IO
S51_P	18	L03P_0	D14	0	IO
S51_N	20	L03N_0	C14	0	IO
S52_N	22	L06N_0	E12	0	IO
S52_P	24	L06P_0	F12	0	IO
S53_P	26	L15P_0	E9	0	IO
S53_N	28	L15N_0	F9	0	IO
S54_N	30	L20N_1	G13	1	IO
S54_P	32	L20P_1	G14	1	IO
S55_P	34	L17P_1	H14	1	IO
S55_N	36	L17N_1	H15	1	IO
S56_N	38	L11N_1/RHCLK1	K12	1	CLK
S56_P	40	L11P_1/RHCLK0	K13	1	CLK
S57_P	42	L12P_1/RHCLK2	K15	1	CLK
S57_N	44	L12N_1/RHCLK3	K14	1	CLK
S58_N	46	L05N_0	B13	0	IO
S58_P	48	L05P_0	A13	0	IO
S59_P	50	L07P_1	M15	1	IO
S59_N	52	L07N_1	M16	1	IO
S60_N	54	L05N_1	M13	1	IO
S60_P	56	L05P_1	M14	1	IO
S61_P	58	L04P_1	N15	1	IO
S61_N	60	L04N_1	N14	1	IO
S62_N	62	L21N_2	P12	2	IO
S62_P	64	L21P_2	N12	2	IO
S63_P	66	L22P_2	P13	2	IO
S63_N	68	L22N_2	R13	2	IO
S64_N	70	L24N_2	R14	2	IO
S64_P	72	L24P_2	T14	2	IO
GND	74				
GND	76				
GND	78				
GND	80				