

DN5000k10 DAUGHTER CARD I/O INTERCONNECTS									
DAUGHTER CARD CONNECTIONS (DN3000K10SD)			DN5000k10 I/O CONNECTORS						
J1	SIGNAL	Conn	9, J10 or J16 Pin	Header J9 Signal	FPGA Pin	Header J10 Signal	FPGA Pin	Header J16 Signal	FPGA Pin
1	+12V		1	+12V		+12V		+12V	
2	GND		2	GND		GND		GND	
3	ACLK1	J5.1	3	ACLK7		ACLK6		ACLK5	
4	+5V		4	+5V		+5V		+5V	
5	BCLK1	J5.3	5	BCLK7		BCLK6		BCLK5	
6	+5V		6	+5V		+5V		+5V	
7	CCLK1	J5.5	7	CCLK7		CCLK6		CCLK5	
8	GND		8	GND		GND		GND	
9	+3.3V		9	+3.3V		+3.3V		+3.3V	
10	P2N3	J3.1	10	DR_CLKOUT		ECLK14		ECLK13	
11	GND		11	GND		GND		GND	
12	P2N2	J3.3	12	AD149	U20.AH15	FB135	U11.AN27	AB172	U19.AT33
13	P2N1	J2.8	13	AD148	U20.AH14	FB141	U11.AH22	AB171	U19.AP32
14	P2N0	J2.9	14	AD151	U20.AM15	FB140	U11.AF21	AB170	U19.AR32
15	P2NX7	J3.5	15	AD150	U20.AL15	FB139	U11.AC26	AB169	U19.AT32
16	P2NX6	J3.7	16	AD152	U20.AK14	FB138	U11.AB26	AB168	U19.AP31
17	P2NX5	J3.9	17	AD0	U20.AL14	FB137	U11.AR34	AB167	U19.AR31
18	P2NX4	J3.11	18	AD115	U20.AM12	FB136	U11.AP34	AB166	U19.AT31
19	P2NX1	J2.10	19	AD114	U20.AL13	FB36	U11.AV36	AB165	U19.AP30
20	P2NX0	J2.11	20	AD112	U20.AK13	FB35	U11.AU38	AB164	U19.AR30
21	P3NX9	J2.40	21	AD111	U20.AK12	FB34	U11.AK32	AB163	U19.AT30
22	GND		22	GND		GND		GND	
23	P3NX8	J2.41	23	AD110	U20.AA13	AF252	U11.AR19	AB162	U19.AP29
24	P3NX5	J3.13	24	AD109	U20.AA12	FB33	U11.AJ32	AB161	U19.AR29
25	P3NX4	J3.15	25	AD108	U20.AH13	AF161	U11.AT19	AB160	U19.AT29
26	P3N89	J3.17	26	AD107	U20.AH12	AF40	U11.AP19	AB159	U19.AP28
27	P3N88	J3.19	27	AD106	U20.AG13	FB28	U11.AF31	AB158	U19.AR28
28	P3N87	J3.21	28	AD105	U20.AG12	FB29	U11.AG32	AB157	U19.AT28
29	P3N86	J3.23	29	AD104	U20.AF13	FB27	U11.AF32	AB156	U19.AP27
30	P3N83	J3.25	30	AD103	U20.AF12	FB25	U11.AE32	AB155	U19.AR27
31	P3N82	J3.27	31	AD102	U20.AE13	FB26	U11.AE31	AB154	U19.AT27
32	P3N77	J3.29	32	AD101	U20.AE12	FB24	U11.AD31	AB153	U19.AP26
33	GND		33	GND		GND		GND	
34	P3N76	J3.31	34	AD100	U20.AD13	FB23	U11.AC31	AB152	U19.AR26
35	P3N75	J3.33	35	AD99	U20.AD12	FB22	U11.AC32	AB151	U19.AT26
36	P3N74	J3.35	36	AD93	U20.U13	FB21	U11.AB31	AB150	U19.AP25
37	P3N69	J2.42	37	AD98	U20.AC13	FB20	U11.AB32	AB149	U19.AR25
38	P3N68	J2.43	38	AD92	U20.U12	FB19	U11.AA27	AB148	U19.AT25
39	P3N67	J3.37	39	AD97	U20.AC12	FB18	U11.AA36	AB147	U19.AP24
40	P3N66	J3.39	40	AD91	U20.T13	FB17	U11.W31	AB146	U19.AR24
41	P3N63	J3.41	41	AD96	U20.AB13	FB16	U11.V31	AB145	U19.AT24
42	P3N62	J3.43	42	AD90	U20.T12	FB15	U11.V32	AB144	U19.AP23
43	P3N57	J3.45	43	AD95	U20.W13	FB14	U11.U31	AB143	U19.AR23
44	GND		44	GND		GND		GND	
45	P3N56	J3.47	45	AD94	U20.V13	FB13	U11.U32	AB142	U19.AT23
46	P3N55		46	AD89	U20.R13	FB12	U11.T31	AB141	U19.AP22
47	P3N54		47	AD87	U20.P13	FB11	U11.T32	AB140	U19.AR22
48	P3N49	J4.1	48	AD88	U20.R12	FB10	U11.R31	AB139	U19.AT22
49	P3N48	J4.3	49	AD86	U20.P12	FB9	U11.R32	AB138	U19.AT21
50	P3N47	J2.19	50	AD85	U20.N13	FB8	U11.P31	AB137	U19.AN18
51	P3N46	J2.20	51	AD84	U20.N12	FB7	U11.P32	AB136	U12.AT19
52	P3N43	J4.5	52	AD83	U20.M13	FB6	U11.N31	AB135	U19.AT20
53	P3N42	J4.7	53	AD82	U20.M12	FB5	U11.N32	AB134	U19.AP19
54	P3N39	J4.9	54	AD81	U20.K16	FB4	U11.M31	AB133	U12.AT20
55	GND		55	GND		GND		GND	
56	P3N38	J4.11	56	AD79	U20.K13	FB3	U11.M32	AB132	U12.AT21
57	P3N35	J4.13	57	AD80	U20.K15	FB2	U11.K25	AB131	U19.AP18
58	P3N34	J4.15	58	AD77	U20.J13	FB1	U11.L32	AB130	U19.AR18
59	P3N29	J4.17	59	AD78	U20.K12	FB129	U11.P24	AB129	U19.AT18
60	P3N28	J4.19	60	AD76	U20.J12	FB130	U11.U26	AB128	U19.AM18
61	P3N27	J4.21	61	AD55	U20.T11	FB127	U11.J27	AB127	U19.AR17
62	P3N26	J4.23	62	AD75	U20.H12	FB128	U11.T26	AB126	U19.AT17
63	P3N23	J2.21	63	AD54	U20.T10	FB125	U11.J29	AB125	U19.AP16
64	P3N22	J2.22	64	AD116	U20.K14	FB126	U11.R26	AB124	U19.AR16
65	P3N19	J4.25	65	AD53	U20.N16	FB60	U11.AD29	AB123	U19.AT16
66	GND		66	GND		GND		GND	
67	P3N18	J4.27	67	AD52	U20.R10	FB59	U11.AD30	AB122	U19.AP15
68	P3N15	J4.29	68	AD56	U20.U10	FB58	U11.AC30	AB121	U19.AR15
69	P3N14	J4.31	69	AD51	U20.R7	FB57	U11.AB30	AB120	U19.AT15
70	P3N9	J2.23	70	AD117	U20.G7	FB56	U11.W30	AB119	U19.AP14
71	P3N8	J2.24	71	AD50	U20.P10	FB55	U11.V30	AB118	U19.AR14
72	P3N7	J4.33	72	AD118	U20.G6	FB54	U11.U30	AB117	U19.AT14
73	P3N6	J4.35	73	AD49	U20.P7	FB53	U11.T29	AB116	U19.AP13
74	P3N3	J4.37	74	AD48	U20.N10	FB52	U11.T30	AB115	U19.AR13
75	P3N2	J4.39	75	AD9	U20.P8	FB51	U11.U29	AB114	U19.AT13
76	P4N27	J4.41	76	AD47	U20.N7	FB50	U11.R30	AB113	U19.AP12
77	GND		77	GND		GND		GND	
78	P4N26	J4.43	78	AD46	U20.M10	FB49	U11.R33	AB112	U19.AR12
79	P4N21	J4.45	79	AD6	U20.M9	FB48	U11.P30	AB111	U19.AT12

80	P4N20	J4.47	80	AD4	U20.H13	FB47	U11.N24	AB110	U19.AP11
81	P4N19		81	AD5	U20.M8	FB46	U11.N30	AB109	U19.AR11
82	P4N18		82	AD3	U20.L8	FB45	U11.N33	AB108	U19.AT11
83	P4N13		83	AD2	U20.J8	FB44	U11.M30	AB107	U19.AP10
84	P4N12		84	AD1	U20.H9	FB43	U11.J28	AB106	U19.AR10
85	P4N11		85	AD39	U20.H11	FB42	U11.K29	AB105	U19.AT10
86	P4N10		86	AD38	U20.G9	FB41	U11.G30	AB104	U19.AP9
87	P4N7		87	AD133	U20.W14	FB40	U11.K32	AB103	U19.AR9
88	GND		88	GND		GND		GND	
89	P4N6		89	AD134	U20.G5	FB39	U11.K33	AB102	U19.AT9
90	P4N3		90	AD131	U20.V14	FB38	U11.G31	AB101	U19.AP8
91	P4N2		91	AD132	U20.F5	FB37	U11.J32	AB100	U19.AR8
92	P4NX11		92	AD129	U20.U14	FB123	U11.F34	AB99	U19.AT8
93	+1.5V		93	+1.5V		+1.5V		+1.5V	
94	P4NX10		94	AD130	U20.E3	FB124	U11.F35	AB98	U19.AP7
95	P4NX7	J7.45	95	AD125	U20.R14	FB121	U11.M25	AB97	U19.AR7
96	P4NX6	J7.47	96	AD126	U20.D2	FB122	U11.N26	AB96	U19.AT7
97	P4NX5		97	AD127	U20.T14	FB119	U11.H27	AB95	U19.AT6
98	P4NX4		98	AD128	U20.C2	FB120	U11.M26	AB94	U19.AT5
99	GND		99	GND		GND		GND	
100	-12V		100	-12V		-12V		-12V	
101	GND		101	GND		GND		GND	
102	MBCK1	J2.27	102	MB156	U11.AV8	AB84	U19.AV33		
103	+1.5V		103	+1.5V		+1.5V		+1.5V	
104	MBCK0	J2.28	104	MB154	U11.AW6	AB174	U19.AP33		
105	+3.3V		105	+3.3V		+3.3V		+3.3V	
106	MBCK6	J5.9	106	DCLK6		DCLK5			
107	GND		107	GND		GND		GND	
108	ECLK1	J5.7	108	MB153	U11.AW5	AB173	U19.AR33		
109	GND		109	GND		GND		GND	
110	GND		110	GND		GND		GND	
111	P2N5	J5.15	111	AD57	U20.V10	FB149	U11.AH25	AB85	U19.AU33
112	P2N4	J5.17	112	AD58	U20.AA10	FB148	U11.AH26	AB80	U19.AW32
113	P2NX11	J2.2	113	AD59	U20.AB10	FB147	U11.AG25	AB81	U19.AV32
114	P2NX10	J2.1	114	AD60	U20.AC10	FB146	U11.AG26	AB82	U19.AU32
115	P2NX9	J5.19	115	AD61	U20.AD10	FB145	U11.AF25	AB77	U19.AW31
116	P2NX8	J5.21	116	AD62	U20.AD11	FB144	U11.AF26	AB78	U19.AV31
117	P2NX3	J5.23	117	AD63	U20.AE8	FB143	U11.AE26	AB79	U19.AU31
118	GND		118	GND		GND		GND	
119	P2NX2	J5.25	119	AD64	U20.AE10	FB142	U11.AD26	AB74	U19.AW30
120	P3NX11	J2.29	120	AD65	U20.AF8	FB75	U11.AV37	AB75	U19.AV30
121	P3NX10	J2.30	121	AD66	U20.AF10	FB74	U11.AL29	AB76	U19.AU30
122	P3NX7	J2.31	122	AD67	U20.AG10	FB73	U11.AL30	AB71	U19.AW29
123	P3NX6	J2.32	123	AD68	U20.AC11	FB72	U11.AK29	AB72	U19.AV29
124	P3NX3	J5.27	124	AD69	U20.AH10	FB71	U11.AT36	AB73	U19.AU29
125	P3NX2	J5.29	125	AD70	U20.AB11	FB70	U11.AR36	AB68	U19.AW28
126	P3NX1	J5.31	126	AD71	U20.AE14	FB69	U11.AR35	AB69	U19.AV28
127	P3NX0	J5.33	127	AD72	U20.AG16	FB68	U11.AJ33	AB70	U19.AU28
128	P3N85	J5.35	128	AD73	U20.AK11	FB67	U11.AH30	AB66	U19.AV27
129	GND		129	GND		GND		GND	
130	P3N84	J5.37	130	AD74	U20.AL12	FB66	U11.AB29	AB67	U19.AU27
131	P3N81	J5.39	131	AD113	U20.AM13	FB65	U11.AG30	AB63	U19.AW26
132	P3N80	J5.41	132	AD144	U20.AF14	FB64	U11.AC29	AB64	U19.AV26
133	P3N79	J2.3	133	AD145	U20.AF15	FB63	U11.AF30	AB65	U19.AU26
134	P3N78	J2.4	134	AD146	U20.AG14	FB62	U11.AF33	AB61	U19.AV25
135	P3N73	J2.6	135	AD147	U20.AG15	FB61	U11.AE30	AB62	U19.AU25
136	P3N72	J2.7	136	AD143	U20.AR5	FB151	U11.AM25	AB58	U19.AW24
137	P3N71	J2.33	137	AD142	U20.AR4	FB150	U11.AL25	AB59	U19.AV24
138	P3N70	J2.34	138	AD141	U20.AR6	FB0	U11.AL26	AB60	U19.AU24
139	P3N65	J5.43	139	AD140	U20.AD14	FB152	U11.AK26	AB55	U19.AW23
140	GND		140	GND		GND		GND	
141	P3N64	J5.45	141	AD139	U20.AP6	FB115	U11.AM27	AB56	U19.AV23
142	P3N61	J5.47	142	AD138	U20.AC14	FB114	U11.AM28	AB57	U19.AU23
143	P3N60	J5.49	143	AD137	U20.AN6	FB113	U11.AL27	AB52	U19.AW22
144	P3N59	J6.1	144	AD136	U20.AB14	FB112	U11.AL28	AB53	U12.AV18
145	P3N58	J6.3	145	AD135	U20.AA14	FB111	U11.AK27	AB54	U19.AU22
146	P3N53	J6.5	146	AD37	U20.AM9	FB110	U11.AK28	AB49	U19.AW21
147	P3N52	J6.7	147	AD36	U20.AK7	FB109	U11.AK25	AB50	U19.AV21
148	P3N51	J2.17	148	AD35	U20.AL8	FB108	U11.AJ24	AB51	U19.AU21
149	P3N50	J2.18	149	AF77	U11.F36	FB107	U11.AH27	AB46	U19.AW20
150	P3N45	J6.9	150	AD34	U20.AK8	FB106	U11.AH28	AB47	U19.AV20
151	GND		151	GND		GND		GND	
152	P3N44	J6.11	152	AD33	U20.AA11	FB105	U11.AG27	AB48	U19.AU20
153	P3N41	J6.13	153	AF78	U11.G36	FB104	U11.AG28	AB43	U12.AW21
154	P3N40	J6.15	154	AF79	U11.H36	FB103	U11.AF27	AB44	U19.AV19
155	P3N37	J6.17	155	AD28	U20.AG8	FB102	U11.AF28	AB45	U19.AU19
156	P3N36	J6.19	156	AD29	U20.AG9	FB101	U11.AE27	AB40	U12.AW22
157	P3N33	J6.21	157	AD27	U20.AF9	FB100	U11.AE28	AB41	U19.AV18
158	P3N32	J6.23	158	AD26	U20.AD9	FB99	U11.AD27	AB42	U12.AU22
159	P3N31	J2.44	159	AD25	U20.AD8	FB98	U11.AD28	AB37	U19.AW17
160	P3N30	J2.45	160	AD24	U20.AC9	FB97	U11.AC27	AB38	U19.AV17
161	P3N25	J6.25	161	AD23	U20.AC8	FB134	U11.W26	AB39	U19.AU17
162	GND		162	GND		GND		GND	
163	P3N24	J6.27	163	AD22	U20.AB9	FB133	U11.V29	AB34	U19.AW16

164	P3N21	J2.29	164	AD21	U20.AB8	FB132	U11.V26	AB35	U19.AV16
165	P3N20	J6.31	165	AD20	U20.AA9	FB131	U11.P26	AB36	U19.AU16
166	P3N17	J6.33	166	AD19	U20.V11	FB96	U11.AC28	AB33	U19.AU15
167	P3N16	J6.35	167	AD18	U20.V9	FB95	U11.AB27	AB29	U19.AW14
168	P3N13	J6.37	168	AD17	U20.V8	FB94	U11.AB28	AB176	U19.AT35
169	P3N12	J6.39	169	AD16	U20.U9	FB93	U11.W27	AB175	U19.AT34
170	P3N11	J2.47	170	AD15	U20.U8	FB92	U11.V27	AB27	U19.AV13
171	P3N10	J2.48	171	AD14	U20.T9	FB91	U11.V28	AB28	U19.AU13
172	P3N5	J6.41	172	AD13	U20.T8	FB90	U11.U27	AB24	U19.AW12
173	GND		173	GND		GND		GND	
174	P3N4	J6.43	174	AD12	U20.R9	FB89	U11.U28	AB25	U19.AV12
175	P3N1	J6.45	175	AD11	U20.R8	FB88	U11.T27	AB26	U19.AU12
176	P3N0	J6.47	176	AD10	U20.P9	FB87	U11.T28	AB21	U19.AW11
177	P4N25	J7.1	177	AD8	U20.N9	FB86	U11.R27	AB22	U19.AV11
178	P4N24	J7.3	178	AD7	U20.N8	FB85	U11.R28	AB23	U19.AU11
179	P4N23	J7.5	179	AD45	U20.M4	FB84	U11.P27	AB18	U19.AW10
180	P4N22	J7.7	180	AD44	U20.M6	FB83	U11.P28	AB19	U19.AV10
181	P4N17	J7.9	181	AD43	U20.K11	FB82	U11.N27	AB20	U19.AU10
182	P4N16	J7.11	182	AD42	U20.K8	FB81	U11.N28	AB15	U19.AW9
183	P4N15	J7.13	183	AD41	U20.J11	FB80	U11.M27	AB16	U19.AV9
184	GND		184	GND		GND		GND	
185	P4N14	J7.15	185	AD40	U20.J10	FB79	U11.M28	AB17	U19.AU9
186	P4N9	J7.17	186	AD123	U20.P14	FB78	U11.K27	AB12	U19.AW8
187	P4N8	J7.19	187	AD124	U20.P15	FB77	U11.L34	AB13	U19.AV8
188	P4N5	J7.21	188	AD121	U20.N14	FB76	U11.K28	AB14	U19.AU8
189	P4N4	J7.23	189	AD122	U20.N15	FB116	U11.J26	AB9	U19.AW7
190	P4N1	J7.25	190	AD119	U20.M14	FB117	U11.K26	AB10	U19.AV7
191	P4N0	J7.27	191	AD120	U20.M15	FB118	U11.H34	AB11	U19.AU7
192	P4NX13	J7.29	192	AF1	U11.E39	AF38	U11.AN30	AB6	U19.AW6
193	P4NX12	J7.31	193	AF2	U11.E38	AF39	U11.AN24	AB7	U19.AV6
194	P4NX9	J7.33	194	AF3	U11.F39	AF37	U11.AM31	AB8	U19.AU6
195	GND		195	GND		GND		GND	
196	P4NX8	J7.35	196	AF4	U11.F38	AF83	U11.J34	AB3	U19.AW5
197	P4NX3	J7.37	197	AF5	U11.F37	AF80	U11.H35	AB4	U19.AV5
198	P4NX2	J7.39	198	AF6	U11.G39	AF82	U11.J35	AB5	U19.AU5
199	P4NX1	J7.41	199	AF7	U11.G38	AB1	U19.AV4		
200	P4NX0	J7.43	200	AF8	U11.G37	AF81	U11.J36	AB2	U19.AU4