

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
13	1	VCCINT	VCCINT
13	2	GNDINT	GND
13	3	VCCINT	VCCINT
13	4	GNDINT	GND
13	5	VCCINT	VCCINT
13	6	GNDINT	GND
13	7	VCCINT	VCCINT
13	8	GNDINT	GND
9	9	I/O	E6
9	10	I/O	A8
9	11	VCCINT	VCCINT
9	12	GNDINT	GND
9	13	I/O	B8
9	14	I/O	C8
9	15	I/O	E7
9	16	VCCIO	VCCIO9
9	17	VCCIO	VCCIO9
9	18	I/O	D8
9	19	I/O	E8
9	20	I/O	E9
9	21	I/O	E10
9	22	VCCINT	VCCINT
9	23	GNDINT	GND
9	24	I/O	A5
9	25	I/O	B5
9	26	I/O	D5
9	27	I/O	E5
9	28	I/O	F5
9	29	GNDINT	GND
9	30	I/O	G5
9	31	I/O	H5
9	32	I/O	J5
9	33	I/O	E4
9	34	I/O	K5
9	35	VCCINT	VCCINT
9	36	GNDINT	GND
9	37	I/O	H4
9	38	I/O	J4
9	39	I/O	K4
9	40	I/O	L5
9	41	I/O	M5
9	42	VCCIO	VCCIO9
9	43	I/O	N13
9	44	I/O	N12
9	45	I/O	N11
9	46	I/O	N4
9	47	I/O	P4
9	48	VCCINT	VCCINT
9	49	GNDINT	GND

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
9	50	I/O	P13
9	51	I/O	P12
9	52	I/O	P11
9	53	I/O	P10
9	54	I/O	R13
9	55	GNDINT	GND
9	56	I/O	R12
9	57	I/O	R11
9	58	I/O	R10
9	59	I/O	N5
9	60	I/O	R4
9	61	VCCINT	VCCINT
9	62	GNDINT	GND
9	63	VCCINT	VCCINT
9	64	GNDINT	GND
9	65	I/O	P8
9	66	I/O	T13
9	67	I/O	T12
9	68	I/O	R9
9	69	I/O	P7
9	70	VCCIO	VCCIO9
9	71	I/O	T11
9	72	I/O	U12
9	73	I/O	T10
9	74	I/O	P5
9	75	I/O	T4
9	76	VCCINT	VCCINT
9	77	GNDINT	GND
9	78	I/O	P6
9	79	I/O	R8
9	80	I/O	U11
9	81	I/O	V12
9	82	I/O	R7
9	83	GNDINT	GND
9	84	I/O	U10
9	85	I/O	U4
9	86	I/O, DATA6 (1)	A4
9	87	I/O	R5
9	88	I/O	T8
9	89	VCCINT	VCCINT
9	90	GNDINT	GND
9	91	I/O	R6
9	92	I/O	V11
9	93	I/O, DATA7 (1)	B4
9	94	I/O	U9
9	95	I/O	W12
9	96	VCCIO	VCCIO9
9	97	I/O	T7
9	98	I/O	V10

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
9	99	I/O, nWS (1)	C4
9	100	I/O	V4
9	101	I/O	T5
9	102	VCCINT	VCCINT
9	103	GNDINT	GND
9	104	I/O	U8
9	105	I/O	T6
9	106	I/O, nRS (1)	D4
9	107	I/O	U7
9	108	I/O	V8
9	109	GNDINT	GND
9	110	I/O	V7
9	111	I/O	U6
9	112	I/O, nCS (1)	D3
9	113	I/O	V5
9	114	I/O	U5
9	115	VCCINT	VCCINT
9	116	GNDINT	GND
-	117	VCC_CLKL4 (2)	P9
-	118	GND_CLKL4 (2)	T9
9	119	GND_CLKL4 (2)	T9
9	120	I/O, CS (1)	E3
9	121	I/O	V6
9	122	I/O, DEV_CLRn (3)	H3
9	123	VCCIO	VCCIO9
9	124	I/O, CLKLK_FB2n (4)	J3
1	125	CLKLK_FB2p	K3
9	126	I/O, CLK4n (4)	N3
9	127	CLK4p	P3
9	128	I/O, CLK2n (4)	R3
9	129	VCCINT	VCCINT
9	130	GNDINT	GND
9	131	DATA0 (5), (6)	V3
9	132	DCLK (5)	W3
9	133	CLK2p	Y3
9	134	nCE (5)	AC3
9	135	TDI (5)	AD3
-	136	GND_CLKL2 (2)	V9
8	137	GND_CLKL2 (2)	V9
8	138	GNDINT	GND
8	139	VCCINT	VCCINT
-	140	VCC_CLKL2 (2)	Y9
8	141	I/O, DEV_OE (3)	AE3
-	142	VCC_CKOUT2 (7)	AA9
-	143	GND_CKOUT2 (7)	W9
1	144	CLKLK_OUT2p (8)	AH3
8	145	I/O, CLKLK_OUT1n (4)	AJ3
8	146	GNDINT	GND
8	147	I/O, LVDSTXINCLK1p	AM5

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
8	148	I/O, LVDSTXINCLK1n (4)	AL5
8	149	I/O, LOCK2 (9)	AK4
8	150	I/O, LVDSTXOUTCLK1n (4)	AM4
8	151	I/O, LVDSTXOUTCLK1p	AL4
8	152	GNDINT	GND
8	153	VCCINT	VCCINT
8	154	I/O, LVDSTX01p	D1
8	155	I/O, LVDSTX01n (4)	D2
8	156	I/O	W6
8	157	I/O, LVDSTX02n (4)	E1
8	158	I/O, LVDSTX02p	E2
8	159	VCCIO	VCCIO8
8	160	I/O, LVDSTX03p	H1
8	161	I/O, LVDSTX03n (4)	H2
8	162	I/O	W7
8	163	I/O, LVDSTX04n (4)	J1
8	164	I/O, LVDSTX04p	J2
8	165	GNDINT	GND
8	166	VCCINT	VCCINT
8	167	I/O, LVDSTX05p	K1
8	168	I/O, LVDSTX05n (4)	K2
8	169	I/O, LOCK4 (9)	AK5
8	170	I/O, LVDSTX06n (4)	N1
8	171	I/O, LVDSTX06p	N2
8	172	GNDINT	GND
8	173	I/O, LVDSTX07p	P1
8	174	I/O, LVDSTX07n (4)	P2
8	175	I/O	Y6
8	176	I/O, LVDSTX08n (4)	R1
8	177	I/O, LVDSTX08p	R2
8	178	GNDINT	GND
8	179	VCCINT	VCCINT
8	180	I/O, LVDSTX09p	V1
8	181	I/O, LVDSTX09n (4)	V2
8	182	I/O	W8
8	183	I/O, LVDSTX10n (4)	W1
8	184	I/O, LVDSTX10p	W2
8	185	VCCIO	VCCIO8
8	186	I/O, LVDSTX11p	Y1
8	187	I/O, LVDSTX11n (4)	Y2
8	188	I/O	AA6
8	189	I/O, LVDSTX12n (4)	AC1
8	190	I/O, LVDSTX12p	AC2
8	191	GNDINT	GND
8	192	VCCINT	VCCINT
8	193	I/O, LVDSTX13p	AD1
8	194	I/O, LVDSTX13n (4)	AD2
8	195	I/O	W5
8	196	I/O, LVDSTX14n (4)	AE1

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
8	197	I/O, LVDSTX14p	AE2
8	198	GNDINT	GND
8	199	I/O, LVDSTX15p	AH1
8	200	I/O, LVDSTX15n (4)	AH2
8	201	I/O	W4
8	202	I/O, LVDSTX16n (4)	AJ1
8	203	I/O, LVDSTX16p	AJ2
8	204	GNDINT	GND
8	205	VCCINT	VCCINT
8	206	GNDINT	GND
8	207	VCCINT	VCCINT
8	208	I/O	Y7
8	209	I/O	AB6
8	210	I/O	AA7
8	211	I/O	Y8
8	212	I/O	W10
8	213	VCCIO	VCCIO8
8	214	I/O	AC6
8	215	I/O	Y5
8	216	I/O	Y4
8	217	I/O	AB7
8	218	I/O	AA8
8	219	GNDINT	GND
8	220	VCCINT	VCCINT
8	221	I/O	W11
8	222	I/O	Y10
8	223	I/O	AB8
8	224	I/O	AC7
8	225	I/O	AA5
8	226	GNDINT	GND
8	227	I/O	AD6
8	228	I/O	Y11
8	229	I/O	AA10
8	230	I/O	AB9
8	231	I/O	AB5
8	232	GNDINT	GND
8	233	VCCINT	VCCINT
8	234	I/O	AC8
8	235	I/O	Y12
8	236	I/O	AA11
8	237	I/O	AD7
8	238	I/O	AC5
8	239	VCCIO	VCCIO8
8	240	I/O	AD5
8	241	I/O	AC9
8	242	I/O	AA12
8	243	I/O	AD8
8	244	I/O	AE5
8	245	GNDINT	GND

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
8	246	VCCINT	VCCINT
8	247	I/O	AC4
8	248	I/O	AD4
8	249	I/O	AE4
8	250	I/O	AF5
7	251	GNDINT	GND
7	252	I/O	AG5
7	253	I/O	AH4
7	254	I/O	AJ4
7	255	GNDINT	GND
7	256	VCCINT	VCCINT
7	257	I/O	AH5
7	258	I/O	AJ5
7	259	I/O	AE6
7	260	I/O	AF6
7	261	I/O	AG6
7	262	I/O	AH6
7	263	I/O	AE7
7	264	VCCIO	VCCIO7
7	265	I/O	AG7
7	266	I/O	AF7
7	267	I/O	AH7
7	268	I/O	AE8
7	269	I/O	AF8
7	270	I/O	AG8
7	271	I/O	AH8
7	272	I/O	AJ8
7	273	I/O	AK8
7	274	I/O	AL8
7	275	GNDINT	GND
7	276	I/O	AM8
7	277	I/O	AD9
7	278	I/O	AE9
7	279	I/O	AF9
7	280	I/O	AG9
7	281	I/O	AM9
7	282	I/O	AL9
7	283	I/O	AK9
7	284	I/O	AJ9
7	285	I/O	AH9
7	286	VCCIO	VCCIO7
7	287	I/O	AB10
7	288	I/O	AC10
7	289	I/O	AD10
7	290	I/O	AE10
7	291	I/O	AF10
7	292	I/O	AG10
7	293	I/O	AL10
7	294	I/O	AK10

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
7	295	I/O	AJ10
7	296	I/O	AH10
7	297	GNDINT	GND
7	298	I/O	AB11
7	299	I/O	AC11
7	300	I/O	AD11
7	301	I/O	AB12
7	302	I/O	AE11
7	303	I/O	AC12
7	304	I/O	AH11
7	305	I/O	AF11
7	306	I/O	AD12
7	307	I/O	-
7	308	I/O	AG11
7	309	VCCIO	VCCIO7
7	310	VCCINT	VCCINT
7	311	VCCINT	VCCINT
7	312	GNDINT	GND
7	313	GNDINT	GND
7	314	I/O	AG12
7	315	I/O	-
7	316	I/O	AF12
7	317	I/O	AE12
7	318	I/O	AH12
7	319	I/O	AB13
7	320	I/O	AG13
7	321	I/O	AF13
7	322	I/O	AE13
7	323	I/O	AD13
7	324	I/O	AC13
7	325	GNDINT	GND
7	326	I/O	AH13
7	327	I/O	AJ13
7	328	I/O	AK13
7	329	I/O	AL13
7	330	I/O	AB14
7	331	I/O	AC14
7	332	I/O	AD14
7	333	I/O	AE14
7	334	I/O	AF14
7	335	I/O	AG14
7	336	VCCIO	VCCIO7
7	337	I/O	AH14
7	338	I/O	AJ14
7	339	I/O	AK14
7	340	I/O	AL14
7	341	I/O	AB15
7	342	I/O	AC15
7	343	I/O	AD15

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
7	344	I/O	AE15
7	345	I/O	AF15
7	346	I/O	AG15
7	347	GNDINT	GND
7	348	I/O	AH15
7	349	I/O	AJ15
7	350	I/O	AK15
7	351	I/O	AL15
7	352	I/O	AB16
7	353	I/O	AC16
7	354	I/O	AD16
7	355	I/O	AE16
7	356	I/O	AF16
7	357	I/O, LVDSDESKEW	AM10
7	358	VCCIO	VCCIO7
7	359	I/O	AG16
7	360	I/O	AH16
7	361	I/O	AJ16
7	362	I/O	AK16
7	363	I/O	AK17
6	364	CONF_DONE (5)	AM13
6	365	NSTATUS (5)	AM14
6	366	FAST4	AM15
6	367	VCCINT	VCCINT
6	368	VCCINT	VCCINT
6	369	GNDINT	GND
6	370	GNDINT	GND
6	371	GNDINT	GND
6	372	FAST3	AM18
6	373	TCK (5)	AM19
6	374	TMS (5)	AM20
6	375	I/O	AG17
6	376	I/O	AF17
6	377	I/O	AE17
6	378	I/O	AD17
6	379	I/O	AC17
6	380	VCCIO	VCCIO6
6	381	I/O	AB17
6	382	I/O	AH17
6	383	I/O	AJ17
6	384	I/O	AB18
6	385	I/O	AC18
6	386	I/O	AF18
6	387	I/O	AG18
6	388	I/O	AE18
6	389	I/O	AD18
6	390	I/O	AH18
6	391	GNDINT	GND
6	392	I/O	AJ18

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
6	393	I/O	AK18
6	394	I/O	AL18
6	395	I/O	AB19
6	396	I/O	AC19
6	397	I/O	AD19
6	398	I/O	AE19
6	399	I/O	AF19
6	400	I/O	AG19
6	401	I/O	AH19
6	402	VCCIO	VCCIO6
6	403	I/O	AJ19
6	404	I/O	AK19
6	405	I/O	AL19
6	406	I/O	AB20
6	407	I/O	AC20
6	408	I/O	AD20
6	409	I/O	AE20
6	410	I/O	AF20
6	411	I/O	AG20
6	412	I/O	AH20
6	413	GNDINT	GND
6	414	I/O	AJ20
6	415	I/O	AK20
6	416	I/O	AL20
6	417	I/O	AB21
6	418	I/O	AC21
6	419	I/O	AD21
6	420	I/O	AE21
6	421	I/O	AF21
6	422	I/O	AG21
6	423	I/O	-
6	424	I/O	AH21
6	425	VCCIO	VCCIO6
6	426	VCCINT	VCCINT
6	427	VCCINT	VCCINT
6	428	GNDINT	GND
6	429	GNDINT	GND
6	430	I/O	AG22
6	431	I/O	-
6	432	I/O	AF22
6	433	I/O	AE22
6	434	I/O	AD22
6	435	I/O	AC22
6	436	I/O	AB22
6	437	I/O	AH22
6	438	I/O	AG23
6	439	I/O	AF23
6	440	I/O	AE23
6	441	GNDINT	GND

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
6	442	I/O	AD23
6	443	I/O	AC23
6	444	I/O	AB23
6	445	I/O	AH23
6	446	I/O	AJ23
6	447	I/O	AK23
6	448	I/O	AL23
6	449	I/O	AM23
6	450	I/O	AB24
6	451	I/O	AG24
6	452	VCCI0	VCCI06
6	453	I/O	AF24
6	454	I/O	AE24
6	455	I/O	AD24
6	456	I/O	AC24
6	457	I/O	AH24
6	458	I/O	AJ24
6	459	I/O	AK24
6	460	I/O	AL24
6	461	I/O	AM24
6	462	I/O	AB25
6	463	GNDINT	GND
6	464	I/O	AC25
6	465	I/O	AD25
6	466	I/O	AE25
6	467	I/O	AF25
6	468	I/O	AG25
6	469	I/O	AH25
6	470	I/O	AJ25
6	471	I/O	AK25
6	472	I/O	AL25
6	473	I/O	AM25
6	474	VCCI0	VCCI06
6	475	I/O	AF26
6	476	I/O	AG26
6	477	I/O	AH26
6	478	I/O	AH27
6	479	I/O	AK28
6	480	I/O	AJ28
6	481	I/O	AH28
6	482	VCCINT	VCCINT
6	483	GNDINT	GND
6	484	I/O	AK29
6	485	I/O	AJ29
6	486	I/O	AJ30
5	487	GNDINT	GND
5	488	I/O	AG28
5	489	I/O	AH29
5	490	I/O	AG27

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
5	491	I/O	AH30
5	492	VCCINT	VCCINT
5	493	GNDINT	GND
5	494	I/O	AF27
5	495	I/O	AF28
5	496	I/O	AE26
5	497	I/O	AE27
5	498	I/O	AE30
5	499	VCCIO	VCCIO5
5	500	I/O	AE29
5	501	I/O	AE28
5	502	I/O	AA21
5	503	I/O	AD26
5	504	I/O	AD30
5	505	VCCINT	VCCINT
5	506	GNDINT	GND
5	507	I/O	AD29
5	508	I/O	AC29
5	509	I/O	AA22
5	510	I/O	AD27
5	511	I/O	AD28
5	512	GNDINT	GND
5	513	I/O	Y29
5	514	I/O	Y21
5	515	I/O	AA23
5	516	I/O	AC28
5	517	I/O	AC26
5	518	VCCINT	VCCINT
5	519	GNDINT	GND
5	520	I/O	Y22
5	521	I/O	W21
5	522	I/O	AA24
5	523	I/O	Y23
5	524	I/O	W22
5	525	VCCIO	VCCIO5
5	526	I/O	V21
5	527	I/O	AA28
5	528	I/O	AC27
5	529	I/O	AB26
5	530	I/O	AA25
5	531	VCCINT	VCCINT
5	532	GNDINT	GND
5	533	VCCINT	VCCINT
5	534	GNDINT	GND
5	535	I/O	Y24
5	536	I/O	W23
5	537	I/O	V22
5	538	I/O	U21
5	539	I/O	AB28

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
5	540	GNDINT	GND
5	541	I/O	Y28
5	542	I/O	AB27
5	543	I/O	AA26
5	544	I/O	Y25
5	545	I/O	V23
5	546	VCCINT	VCCINT
5	547	GNDINT	GND
5	548	I/O	U22
5	549	I/O	T21
5	550	I/O	W28
5	551	I/O	W29
5	552	I/O	R20
5	553	VCCIO	VCCIO5
5	554	I/O	T22
5	555	I/O	AA27
5	556	I/O	Y26
5	557	I/O	W25
5	558	I/O	U23
5	559	VCCINT	VCCINT
5	560	GNDINT	GND
5	561	I/O	V28
5	562	I/O	V29
5	563	I/O	R21
5	564	I/O	T23
5	565	I/O	U24
5	566	GNDINT	GND
5	567	I/O	V25
5	568	I/O	W26
5	569	I/O	Y27
5	570	I/O	R22
5	571	I/O	U28
5	572	VCCINT	VCCINT
5	573	GNDINT	GND
5	574	I/O	U29
5	575	I/O	U25
5	576	I/O	V26
5	577	I/O	T25
5	578	I/O	W27
5	579	VCCIO	VCCIO5
5	580	I/O	U26
5	581	I/O	T26
5	582	I/O	T28
5	583	I/O	T29
5	584	I/O, LOCK1 (9)	AC30
5	585	VCCINT	VCCINT
5	586	GNDINT	GND
5	587	I/O	V27
5	588	I/O	U27

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
5	589	I/O	T27
-	590	VCC_CLKL1 (2)	W24
-	591	GND_CLKL1 (2)	V24
5	592	GND_CLKL1 (2)	V24
5	593	GNDINT	GND
5	594	I/O, CLKLK_FB1n (4)	AM28
10	595	CLKLK_FB1p	AL28
5	596	I/O, CLK3n (4)	Y30
5	597	CLK3p	W30
5	598	I/O, CLK1n (4)	V30
5	599	VCCINT	VCCINT
5	600	GNDINT	GND
5	601	NCONFIG (5)	R30
5	602	CLKLK_ENA (5) (10)	P30
5	603	CLK1p	N30
5	604	MSEL1 (5)	K30
5	605	MSEL0 (5)	J30
5	606	GNDINT	GND
5	607	VCCINT	VCCINT
-	608	VCC_CKOUT1 (7)	N24
-	609	GND_CKOUT1 (7)	T24
10	610	CLKLK_OUT1p (8)	AM29
4	611	I/O, CLKLK_OUT1n (4)	AL29
-	612	VCC_CLKL3 (2)	M24
4	613	VCCIO	VCCIO4
-	614	GND_CLKL3 (2)	P23
-	615	GND_CLKL3 (2)	P24
4	616	I/O, LVDSRXINCLK1p	B29
4	617	I/O, LVDSRXINCLK1n (4)	A29
4	618	I/O	R23
4	619	I/O	R24
4	620	GNDINT	GND
4	621	VCCINT	VCCINT
4	622	I/O, LVDSRX01p	AJ32
4	623	I/O, LVDSRX01n (4)	AJ31
4	624	I/O, LOCK3 (9)	H30
4	625	I/O, LVDSRX02n (4)	AH32
4	626	I/O, LVDSRX02p	AH31
4	627	GNDINT	GND
4	628	I/O, LVDSRX03p	AE32
4	629	I/O, LVDSRX03n (4)	AE31
4	630	I/O	R25
4	631	I/O, LVDSRX04n (4)	AD32
4	632	I/O, LVDSRX04p	AD31
4	633	GNDINT	GND
4	634	VCCINT	VCCINT
4	635	I/O, LVDSRX05p	AC32
4	636	I/O, LVDSRX05n (4)	AC31
4	637	I/O	R26

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
4	638	I/O, LVDSRX06n (4)	Y32
4	639	I/O, LVDSRX06p	Y31
4	640	VCCIO	VCCIO4
4	641	I/O, LVDSRX07p	W32
4	642	I/O, LVDSRX07n (4)	W31
4	643	I/O	R27
4	644	I/O, LVDSRX08n (4)	V32
4	645	I/O, LVDSRX08p	V31
4	646	GNDINT	GND
4	647	VCCINT	VCCINT
4	648	I/O, LVDSRX09p	R32
4	649	I/O, LVDSRX09n (4)	R31
4	650	I/O	R28
4	651	I/O, LVDSRX10n (4)	P32
4	652	I/O, LVDSRX10p	P31
4	653	GNDINT	GND
4	654	I/O, LVDSRX11p	N32
4	655	I/O, LVDSRX11n (4)	N31
4	656	I/O	R29
4	657	I/O, LVDSRX12n (4)	K32
4	658	I/O, LVDSRX12p	K31
4	659	GNDINT	GND
4	660	VCCINT	VCCINT
4	661	I/O, LVDSRX13p	J32
4	662	I/O, LVDSRX13n (4)	J31
4	663	I/O	P28
4	664	I/O, LVDSRX14n (4)	H32
4	665	I/O, LVDSRX14p	H31
4	666	VCCIO	VCCIO4
4	667	I/O, LVDSRX15p	E32
4	668	I/O, LVDSRX15n (4)	E31
4	669	I/O	P29
4	670	I/O, LVDSRX16n (4)	D32
4	671	I/O, LVDSRX16p	D31
4	672	GNDINT	GND
4	673	VCCINT	VCCINT
4	674	GNDINT	GND
4	675	VCCINT	VCCINT
4	676	I/O	P27
4	677	I/O	P26
4	678	I/O	N27
4	679	I/O	P25
4	680	I/O	N28
4	681	GNDINT	GND
4	682	I/O	N26
4	683	I/O	N29
4	684	I/O	N25
4	685	I/O	M28
4	686	I/O	P22

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
4	687	GNDINT	GND
4	688	VCCINT	VCCINT
4	689	I/O	M27
4	690	I/O	P21
4	691	I/O	P20
4	692	I/O	N23
4	693	I/O	M26
4	694	VCCIO	VCCIO4
4	695	I/O	N22
4	696	I/O	N21
4	697	I/O	N20
4	698	I/O	N19
4	699	I/O	M23
4	700	GNDINT	GND
4	701	VCCINT	VCCINT
4	702	I/O	M22
4	703	I/O	M21
4	704	I/O	M20
4	705	I/O	M19
4	706	I/O	L27
4	707	GNDINT	GND
4	708	I/O	L26
4	709	I/O	L24
4	710	I/O	L23
4	711	I/O	L28
4	712	I/O	K24
4	713	GNDINT	GND
4	714	VCCINT	VCCINT
4	715	I/O	K26
4	716	I/O	K27
4	717	I/O	K28
4	718	I/O	K29
4	719	VCCIO	VCCIO4
4	720	VCCIO	VCCIO4
4	721	I/O	J26
4	722	I/O	J29
4	723	I/O	J28
4	724	GNDINT	GND
4	725	VCCINT	VCCINT
4	726	I/O	J27
4	727	I/O	H29
3	728	EN_SELECT (12)	H28
3	729	PROC_TRST	E30
3	730	PROC_TCK	D30
3	731	PROC_TDI	H27
3	732	PROC_TDO	H26
3	733	PROC_TMS	E29
3	734	VCCINT	VCCINT
3	735	GNDINT	GND

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
3	736	VCCINT	VCCINT
-	737	GND_CLKL6 (2)	M25
3	738	GND_CLKL6 (2)	M25
-	739	VCC_CLKL6 (2)	L25
-	740	GND_CLKL5 (2)	K25
3	741	GND_CLKL5 (2)	K25
-	742	VCC_CLKL5 (2)	J25
3	743	CLK_REF	A28
3	744	NPOR	B28
3	745	GNDINT	P18
3	746	I/O, UART_CTS_N	G28
3	747	I/O, UART_DSR_N	F28
3	748	I/O, UART_RXD	D29
3	749	I/O, UART_DCD_N	G27
3	750	I/O, UART_RI_N	E28
3	751	GNDINT	GND
3	752	I/O, UART_TXD	D28
3	753	I/O, UART_RTS_N	C28
3	754	I/O, UART_DTR_N	G26
2	755	I/O, EBI_BE0	F27
2	756	I/O, EBI_BE1	E27
2	757	I/O, EBI_OE_N	F26
2	758	I/O, EBI_WE_N	E26
2	759	I/O, EBI_CS0	A25
2	760	I/O, EBI_CS1	B25
2	761	I/O, EBI_CS2	C25
2	762	VCCIO	VCCIO2
2	763	I/O, EBI_CS3	D25
2	764	I/O, EBI_CLK	E25
2	765	I/O, EBI_ACK	F25
2	766	I/O, INT_EXTPIN_N	G25
2	767	I/O, EBI_A0	H25
2	768	I/O, EBI_A1	D24
2	769	I/O, EBI_A2	E24
2	770	I/O, EBI_A3	F24
2	771	I/O, EBI_A4	G24
2	772	I/O, EBI_A5	J24
2	773	GNDINT	GND
2	774	I/O, EBI_A6	H24
2	775	I/O, EBI_A7	E23
2	776	I/O, EBI_A8	F23
2	777	I/O, EBI_A9	G23
2	778	I/O, EBI_A10	K23
2	779	I/O, EBI_A11	J23
2	780	I/O, EBI_A12	H23
2	781	I/O, EBI_A13	E22
2	782	I/O, EBI_A14	F22
2	783	I/O, EBI_A15	E21
2	784	VCCIO	VCCIO2

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
2	785	I/O, EBI_A16	L22
2	786	I/O, EBI_A17	K22
2	787	I/O, EBI_A18	J22
2	788	I/O, EBI_A19	H22
2	789	I/O, EBI_A20	G22
2	790	I/O, EBI_A21	F21
2	791	I/O, EBI_A22	G21
2	792	I/O, EBI_A23	L21
2	793	I/O, EBI_A24	K21
2	794	I/O, EBI_DQ0	J21
2	795	I/O, EBI_DQ1	H21
2	796	GNDINT	GND
2	797	GNDINT	GND
2	798	GNDINT	GND
2	799	VCCINT	VCCINT
2	800	VCCINT	VCCINT
2	801	GNDINT	-
2	802	I/O, EBI_DQ2	E20
2	803	I/O, EBI_DQ3	F20
2	804	I/O, EBI_DQ4	E19
2	805	I/O, EBI_DQ5	L20
2	806	I/O, EBI_DQ6	K20
2	807	I/O, EBI_DQ7	J20
2	808	I/O, EBI_DQ8	H20
2	809	I/O, EBI_DQ9	G20
2	810	I/O, EBI_DQ10	F19
2	811	I/O, EBI_DQ11	G19
2	812	I/O, EBI_DQ12	L19
2	813	VCCIO	VCCIO2
2	814	I/O, EBI_DQ13	K19
2	815	I/O, EBI_DQ14	J19
2	816	I/O, EBI_DQ15	H19
11	817	JSELECT	C24
11	818	I/O	B24
11	819	I/O	A24
11	820	I/O	D23
11	821	I/O	C23
11	822	I/O	B23
11	823	I/O	A23
11	824	I/O	D20
11	825	GNDINT	GND
11	826	I/O	C20
11	827	I/O	B20
11	828	I/O	A20
11	829	I/O	D19
11	830	I/O	C19
11	831	I/O	B19
11	832	I/O	A19
11	833	I/O	A18

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
11	834	I/O	B18
11	835	I/O	D18
11	836	VCCIO	VCCIO11
11	837	I/O	E18
11	838	I/O	D17
11	839	I/O	E17
11	840	I/O	D16
11	841	I/O	E16
11	842	I/O	A15
11	843	I/O	B15
11	844	I/O	D15
11	845	I/O	E15
11	846	I/O	A14
11	847	GNDINT	GND
11	848	I/O	B14
11	849	I/O	C14
11	850	I/O, INIT_DONE (3)	D14
11	851	I/O, RDYnBSY (1)	E14
11	852	I/O, CLKUSR (1)	A13
11	853	VCCIO	VCCIO11
11	854	NRESET	B13
11	855	TRST (5)	C13
11	856	nCEO (5)	D13
11	857	FAST1	E13
11	858	GNDINT	GND
11	859	GNDINT	GND
11	860	VCCINT	VCCINT
11	861	VCCINT	VCCINT
11	862	VCCIO	VCCIO11
11	863	FAST2	E12
11	864	TD0 (5)	E11
11	865	GNDINT	GND
11	866	GNDINT	A10
11	867	DEBUG_EN	B10
11	868	BOOT_FLASH	C10
11	869	I/O, DATA1 (1)	D10
11	870	I/O, DATA2 (1)	A9
11	871	I/O, DATA3 (1)	B9
11	872	I/O, DATA4 (1)	C9
11	873	I/O, DATA5 (1)	D9
11	874	GNDINT	GND
12	875	I/O, SD_DQ0	H18
12	876	I/O, SD_DQ1	H17
12	877	I/O, SD_DQ2	H16
12	878	I/O, SD_DQ3	J18
12	879	I/O, SD_DQ4	J17
12	880	I/O, SD_DQ5	H15
12	881	I/O, SD_DDR_VS0	G17
12	882	I/O, SD_DQ6	J16

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
12	883	I/O, SD_DQ7	J15
12	884	I/O, SD_DQS0	J14
12	885	VCCIO	VCCIO12
12	886	I/O, SD_DQM0	H14
12	887	I/O, SD_DQ8	K18
12	888	I/O, SD_DQ9	K17
12	889	I/O, SD_DQ10	L18
12	890	I/O, SD_DQ11	K16
12	891	I/O, SD_DQ12	L17
12	892	I/O, SD_DQ13	L16
12	893	I/O, SD_DQ14	K15
12	894	I/O, SD_DDR_VS1	G16
12	895	I/O, SD_DQ15	L15
12	896	GNDINT	GND
12	897	I/O, SD_DQS1	K14
12	898	I/O, SD_DQM1	L14
12	899	I/O, SD_DQ16	L13
12	900	I/O, SD_DQ17	K13
12	901	I/O, SD_DQ18	L12
12	902	I/O, SD_DQ19	K12
12	903	I/O, SD_DQ20	L11
12	904	I/O, SD_DQ21	K11
12	905	I/O, SD_DQ22	L10
12	906	I/O, SD_DQ23	L9
12	907	VCCIO	VCCIO12
12	908	I/O, SD_DQS2	K10
12	909	I/O, SD_DQM2	K9
12	910	I/O, SD_DQ24	H13
12	911	I/O, SD_DQ25	H12
12	912	I/O, SD_DDR_VS2	G15
12	913	I/O, SD_DQ26	J13
12	914	I/O, SD_DQ27	J12
12	915	I/O, SD_DQ28	J11
12	916	I/O, SD_DQ29	J10
12	917	I/O, SD_DQ30	J9
12	918	I/O, SD_DQ31	H11
12	919	GNDINT	GND
12	920	GNDINT	GND
12	921	GNDINT	GND
12	922	VCCINT	VCCINT
12	923	VCCINT	VCCINT
12	924	I/O, SD_DQS3	H10
12	925	I/O, SD_DQM3	H9
12	926	I/O, SD_WE_N	G18
12	927	I/O, SD_CAS_N	F18
12	928	I/O, SD_RAS_N	F17
12	929	I/O, SD_CS_N0	G14
12	930	I/O, SD_CS_N1	F16
12	931	I/O, SD_CLK_N	G13

I/O & VREF Bank	Pad Number Orientation	Pin/Pad Function	1,020-Pin FineLine BGA
12	932	I/O, SD_CLK	F15
12	933	SD_CLKE	F14
12	934	I/O, SD_A0	G12
12	935	VCCIO	VCCIO12
12	936	I/O, SD_A1	F13
12	937	I/O, SD_A2	G11
12	938	I/O, SD_A3	F12
12	939	I/O, SD_A4	F11
12	940	I/O, SD_A5	G10
12	941	I/O, SD_A6	F10
12	942	I/O, SD_A7	F9
12	943	I/O, SD_A8	G9
12	944	I/O, SD_A9	F8
12	945	I/O, SD_A10	G8
12	946	GNDINT	GND
12	947	I/O, SD_A11	F7
12	948	I/O, SD_A12	F6
12	949	I/O, SD_A13	G7
12	950	I/O, SD_A14	G6
13	951	I/O, PIPESTAT0	N10
13	952	I/O, PIPESTAT1	N9
13	953	I/O, PIPESTAT2	M9
13	954	I/O, TRACECLK	N8
13	955	I/O, TRACESYNC	M8
13	956	I/O, TRACEPKT0	L8
13	957	VCCIO	VCCIO13
13	958	I/O, TRACEPKT1	K8
13	959	I/O, TRACEPKT2	J8
13	960	I/O, TRACEPKT3	H8
13	961	I/O, TRACEPKT4	N7
13	962	I/O, TRACEPKT5	M7
13	963	I/O, TRACEPKT6	L7
13	964	I/O, TRACEPKT7	K7
13	965	I/O, TRACEPKT8	J7
13	966	I/O, TRACEPKT9	H7
13	967	I/O, TRACEPKT10	N6
13	968	GNDINT	GND
13	969	I/O, TRACEPKT11	M6
13	970	I/O, TRACEPKT12	L6
13	971	I/O, TRACEPKT13	K6
13	972	I/O, TRACEPKT14	J6
13	973	I/O, TRACEPKT15	H6
13	974	-	-

Pin Name	1,020-Pin FineLine BGA
MSEL0 (5)	J30
MSEL1 (5)	K30
NSTATUS (5)	AM14
NCONFIG (5)	R30
DCLK (5)	W3
CONF_DONE (5)	AM13
INIT_DONE (3)	D14
nCE (5)	AC3
nCE0 (5)	D13
nWS (1)	C4
nRS (1)	D4
nCS (1)	D3
CS (1)	E3
RDYnBSY (1)	E14
CLKUSR (1)	A13
DATA7 (1)	B4
DATA6 (1)	A4
DATA5 (1)	D9
DATA4 (1)	C9
DATA3 (1)	B9
DATA2 (1)	A9
DATA1 (1)	D10
DATA0 (5), (6)	V3
TDI (5)	AD3
TD0 (5)	E11
TCK (5)	AM19
TMS (5)	AM20
TRST (5)	C13
Dedicated Fast I/Os	E13, E12, AM18, AM15
CLK1p	N30
CLK2p	Y3
CLK3p	W30
CLK4p	P3
LOCK1 (9)	AC30
LOCK2 (9)	AK4
LOCK3 (9)	H30
LOCK4 (9)	AK5
CLKLK_ENA (5) (10)	P30
CLKLK_OUT1p (8)	AM29
CLKLK_OUT2p (8)	AH3
CLKLK_FB1p	AL28
CLKLK_FB2p	K3
DEV_CLRn (3)	H3
DEV_OE (3)	AE3
CLK_REF	A28
NRESET	B13
NPOR	B28
BOOT_FLASH	C10
DEBUG_EN	B10
JSELECT	C24

Pin Name	1,020-Pin FineLine BGA
PROC_TDI	H27
PROC_TD0	H26
PROC_TCK	D30
PROC_TMS	E29
PROC_TRST	E30
EN_SELECT (12)	H28
	A2, A6, A11, A16, A22, A27, A31, AB1, AB2, AB31, AB32, AG1, AG2, AG31, AG32, AL1, AL6, AL11, AL17, AL22, AL27, AL32, AM2, AM6, AM11, AM17, AM22, AM27, AM31, B1, B6, B11, B16, B22, B27, B32, F1, F2, F31, F32, L1, L2, L31, L32, R15, R18, T16, T17, T30, T31, T32, U1, U2, U3, U16, U17, V15, V18
VCCINT	
VCCI01	A3, C5
VCCI02	A7, A12, B7, B12, C17, C18, P15
VCCI03	B21, C15, C16
VCCI06	A21, A26, B26
VCCI07	A30, C29
VCCI08	C32, G31, G32, M31, M32
VCCI09	AA31, AA32, AF31, AF32, AK32
VCCI010	AL21, AL26, AM21, AM26, AM30
VCCI011	AL12, AL7, AM3, AM7, AM12
VCCI012	AA1, AA2, AF1, AF2, AK1
VCCI013	C1, G1, G2, M1, M2
VCC_CK1K1 (2)	W24
VCC_CK1K2 (2)	Y9
VCC_CK1K3 (2)	M24
VCC_CK1K4 (2)	P9
VCC_CK1K5 (2)	J25
VCC_CK1K6 (2)	L25
VCC_CKOUT1 (7)	N24
VCC_CKOUT2 (7)	AA9
	A10, A17, AA3, AA4, AA29, AA30, AB3, AB4, AB29, AB30, AF3, AF4, AF29, AF30, AG3, AG4, AG29, AG30, AJ6, AJ7, AJ11, AJ12, AJ21, AJ22, AJ26, AJ27, AK2, AK3, AK6, AK7, AK11, AK12, AK21, AK22, AK26, AK27, AK30, AK31, AL2, AL3, AL16, AL30, AL31, AM16, B2, B3, B17, B30, B31, C2, C3, C6, C7, C11, C12, C21, C22, C26, C27, C30, C31, D6, D7, D11, D12, D21, D22, D26, D27, F3, F4, F29, F30, G3, G4, G29, G30, L3, L4, L29, L30, M3, M4, M29, M30, P14, P18, P19, R16, R17, T1, T2, T3, T15, T18, U15, U18, U30, U31, U32, V16, V17, W14, W19
GND	
GND_CK1K1 (2)	V24
GND_CK1K2 (2)	V9
GND_CK1K3 (2)	P24, P23
GND_CK1K4 (2)	T9
GND_CK1K5 (2)	K25
GND_CK1K6 (2)	M25
GND_CKOUT1 (7)	T24

Pin Name	1,020-Pin FineLine BGA
GND_CKOUT2 (7)	W9
No Connect (N.C.)	AA13, AA14, AA15, AA16, AA17, AA18, AA19, AA20, M10, M11, M12, M13, M14, M 15, M16, M17, M18, N14, N15, N16, N17, N18, P16, P17, R14, R19, T14, T19, T20, U13, U14, U19, U20, V13, V14, V19, V20, W13, W15, W16, W17, W18, W20, Y13, Y14, Y15, Y16, Y17, Y18, Y19, Y20
Total User I/O Pins (11)	711

Notes:

- (1) This pin can be used as a user I/O pin after configuration.
- (2) This pin is the power or ground for the ClockLock and ClockBoost circuitry. To ensure noise resistance, the power and ground supply to the ClockLock and ClockBoost circuitry should be isolated from the power and ground to the rest of the device. VCC_CKCLK has the same voltage specifications as the VCCINT and should be connected to a 1.8 -V power supply. If the ClockLock or ClockBoost circuitry is not used, this power or ground pin should be connected to VCCINT or GNDINT, respectively.
- (3) This pin can be used as a user I/O pin if it is not used for its device-wide or configuration function.
- (4) This pin is the complementary signal for the LVDS pair on dedicated inputs and outputs that can be configured for the LVDS standard. If not used for the LVDS pair, these pins are regular I/O pins. Pins with the "n" suffix carry the negative signal for the LVDS channel. Pins with a "p" suffix carry the positive signal for the LVDS channel.
- (5) This pin is a dedicated pin; it is not available as a user I/O pin.
- (6) This pin is tri-stated in user mode.
- (7) This pin is the power or ground for the external output of a PLL. These pins should be set to the VCCIO level/standard desired for the external clock output. To ensure noise resistance, the power and ground supply to the PLL external output should be isolated from the power and ground to the rest of the VCCIO and GNDIO pins. If the PLL or external output is not used, this power or ground pin should be connected to VCCIO or GNDIO, respectively.
- (8) The CLKLK_OUT pin is powered by the VCC_CKOUT and GND_CKOUT pins.
- (9) This pin shows the status of the ClockLock and ClockBoost circuitry. When the ClockLock and ClockBoost circuitry is locked to the incoming clock and generates an internal clock, LOCK is driven high. LOCK remains high if a periodic clock stops clocking. The LOCK function is optional; if the LOCK output is not used, this pin is a user I/O pin.
- (10) This pin is the active high enable pin for all of the PLL circuits in the device. When de-asserted, all PLLs are reset to their default, unlocked state and will stop clocking. Once re-asserted, the PLLs will lock again and start clocking. If this pin function is not needed, the pin should be connected to VCCINT.
- (11) The user I/O pin count includes dedicated FAST I/Os and dedicated clock inputs. It does not include the dedicated clock feedback and output pins.
- (12) This pin is reserved for future functionality and should be connected to GND for this device.

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