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14	ALTERA CORPORATION	
15 16	UNITED STATES DIS	TRICT COURT
17	NORTHERN DISTRICT	
18		~
19	ALTERA CORPORATION $C V$	$c_{11} - 03139$ EDL
20		COMPLAINT FOR PATENT INFRINGEMENT AND FOR
21	v.	DECLARATORY JUDGMENT OF PATENT NONINFRINGEMENT AND
22		INVALIDITY
23		DEMAND FOR JURY TRIAL
24	Defendants.	
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	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATOR	RY JUDGMENT

Plaintiff Altera Corporation ("Altera"), by and through its attorneys, alleges as follows: 1 2 PARTIES 3 1. Altera is a corporation organized under the laws of the State of Delaware with its 4 principal place of business at 101 Innovation Drive, San Jose, California 95134. Altera regularly 5 conducts business in the Northern District of California. 6 2. Upon information and belief, Defendant LSI Corporation ("LSI") is a corporation 7 organized under the laws of the State of California and Delaware with its principal place of 8 business at 1621 Barber Lane, Milpitas, California 95035. LSI regularly conducts business in the 9 Northern District of California. 10 Upon information and belief, Defendant Agere Systems, Inc. ("Agere," and 3. 11 collectively with LSI as "Defendants") is a corporation organized under the laws of the State of 12 Delaware with its principal place of business at 1110 American Parkway, Allentown, 13 Pennsylvania 18109. Agere is a wholly owned subsidiary of LSI, and regularly conducts business 14 in the Northern District of California. 15 JURISDICTION AND VENUE 16 4. This is a patent infringement case arising under the patent laws of the United States, 17 35 U.S.C. §§ 1 et seq., alleging that Defendants infringe U.S. Patent Nos. 5,752,032, 6,856,180, 18 7,227,918, 6,798,302, 6,985,021, 5,822,553, 5,784,649, RE40,883, 5,834,849, 7,091,613, 19 6,342,794, and 6,859,064 (collectively the "Altera patents-in-suit"). This is also an action under 20 the Federal Declaratory Judgments Act, 28 U.S.C. §§ 2201 and 2202, against Defendants for a 21 declaration that pursuant to the patent laws of the United States, 35 U.S.C. §§ 1 et seq., the 22 disputed claims of U.S. Patent Nos. 5,222,030, 5,526,277, 5,801,958, 6,564,361, 6,640,333, 23 6,118,177, 5,952,726, 6,313,683, 6,028,467, 6,157,215, 6,459,313, and 5,731,711 (collectively 24 the "LSI patents-in-suit") are not infringed by Plaintiff and are invalid. Jurisdiction as to these 25 claims is conferred on this Court by 28 U.S.C. §§ 1331 and 1338(a). 26 5. Upon information and belief, this Court has personal jurisdiction over LSI because 27 LSI has sufficient contacts with this judicial district and LSI regularly conducts business within this judicial district. Upon information and belief, LSI directly distributes, offers for sale or 28

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1	license, sells or licenses, and advertises its products and services within the State of California
2	and this judicial district.
3	6. Upon information and belief, this Court has personal jurisdiction over Agere because
4	Agere has sufficient contacts with this judicial district and Agere regularly conducts business
5	within this judicial district. Upon information and belief, Agere directly distributes, offers for
6	sale or license, sells or licenses, and advertises its products and services within the State of
7	California and this judicial district.
8	7. Venue is proper in this judicial district under 28 U.S.C. §§ 1391 and 1400(b). LSI
9	and Agere are corporations that are subject to personal jurisdiction in this district.
10	INTRADISTRICT ASSIGNMENT
11	8. This is an Intellectual Property Action to be assigned on a district-wide basis
12	pursuant to Civil Local Rule 3-2(c).
13	ALTERA'S INFRINGEMENT CLAIMS
14	9. Altera is a preeminent supplier of programmable logic solutions, offering Field
15	Programmable Gate Arrays ("FPGAs"), Complex Programmable Logic Devices ("CPLDs"), and
16	Application-Specific Integrated Circuits ("ASICs") in combination with software tools,
17	intellectual property, and support to customers world-wide.
18	10. The pioneering work of Altera's scientists and engineers has been rewarded with
19	many United States Patents, including the majority of the Altera patents-in-suit.
20	11. Each of the inventors or former assignees of the Altera-patents-in-suit have assigned
21	the patents to Altera, so that Altera is the sole owner of all rights and titles to the Altera-patents-
22	in-suit, including the right to recover damages for past and current infringement.
23	12. LSI develops, markets and sells custom and standard Integrated Circuits ("ICs"),
24	adapters, systems and software for the storage and networking markets.
25	13. Agere is also a semiconductor company that became a wholly-owned subsidiary of
26	LSI in 2007. Prior to being acquired by LSI, Agere was a subsidiary of Lucent Technologies and
27	later spun off from Lucent.
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1 **COUNT I** (INFRINGEMENT OF U.S. PATENT NO. 5,752,032) 2 14. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through 3 13 above and incorporates them by reference. 4 15. On May 12, 1998, the '032 Patent entitled "Adaptive device driver using controller 5 hardware sub-element identifier" was duly and legally issued to Diamond Multimedia Systems, 6 Inc. by the United States Patent and Trademark Office. Altera is the current owner of the entire 7 right, title, and interest in and to the '032 Patent. A true and correct copy of the '032 Patent is 8 attached as Exhibit 1 to this Complaint. 9 Altera has not licensed or otherwise authorized Defendants to make, use, offer for 16. 10 sale, sell, or import into the United States any products that embody the inventions of the '032 11 Patent. 12 17. Defendants have directly infringed and continue to directly infringe the '032 Patent 13 by making, using, offering for sale or selling products including, but not limited to, LSIFC949X, 14 LSI7104EP-LC, LSI7204EP-LC, LSI7404EP-LC, LSI7104XP-LC, LSI7204XP-LC, LSI7404XP-15 LC, LSI7102XP-LC, LSI7202XP-LC, LSI FW643E, FW321, FW322, FW323, FW420, FW430, 16 FW533/533E, FW801A/BF, FW802B/BF/C, FW843, FireStorm[™], FW643/FW533, FireSide[™] 17 FW643, ExpressCard[™], 1394 PC OEM Card, LSI MegaRAID and 3ware Controllers. 18 Defendants have had actual knowledge of the '032 Patent since at least February 17, 18. 19 2011. 20 19. Defendants have indirectly infringed and continue to indirectly infringe the '032 21 Patent by inducing end-users to infringe the '032 Patent by using products including, but not 22 limited to, LSIFC949X, LSI7104EP-LC, LSI7204EP-LC, LSI7404EP-LC, LSI7104XP-LC, 23 LSI7204XP-LC, LSI7404XP-LC, LSI7102XP-LC, LSI7202XP-LC, LSI FW643E, FW321, 24 FW322, FW323, FW420, FW430, FW533/533E, FW801A/BF, FW802B/BF/C, FW843, 25 FireStorm[™], FW643/FW533, FireSide[™] FW643, ExpressCard[™], 1394 PC OEM Card, LSI 26 MegaRAID and 3ware Controllers. Defendants intentionally took action that induced end-users 27 to infringe the '032 Patent by marketing, selling, and supporting the infringing devices. 28 COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 3

1 Defendants had awareness of the '032 Patent and knew or were willfully blind to the fact that 2 their actions would cause direct infringement by end-users. 3 20. Defendants have indirectly infringed and continue to indirectly infringe the '032 4 Patent by contributing to direct infringement by end-users who use products including, but not 5 limited to, LSIFC949X, LSI7104EP-LC, LSI7204EP-LC, LSI7404EP-LC, LSI7104XP-LC, 6 LSI7204XP-LC, LSI7404XP-LC, LSI7102XP-LC, LSI7202XP-LC, LSI FW643E, FW321, 7 FW322, FW323, FW420, FW430, FW533/533E, FW801A/BF, FW802B/BF/C, FW843, 8 FireStorm[™], FW643/FW533, FireSide[™] FW643, ExpressCard[™], 1394 PC OEM Card, LSI 9 MegaRAID and 3ware Controllers. Defendants supplied an important component of the 10 infringing devices; the component is not a common component suitable for non-infringing use; 11 and Defendants supplied the component with the knowledge of the '032 Patent and knowledge 12 that the component was especially made or adapted for use in an infringing manner. 13 21. Upon information and belief, Defendants' infringement of Altera's '032 Patent has 14 been and will continue to be willful, wanton and deliberate. 15 Altera is damaged and irreparably injured by Defendants' infringing activities and 22. 16 will continue to be so damaged and irreparably injured unless Defendants' infringing activities 17 are enjoined by this Court. 18 Defendants are thus liable to Altera for infringement of the '032 Patent pursuant to 23. 19 35 U.S.C. § 271. 20 COUNT II (INFRINGEMENT OF U.S. PATENT NO. 6,856,180) 21 22 24. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through 23 13 above and incorporates them by reference. 24 25. On February 15, 2005, the '180 Patent entitled "Programmable loop bandwidth in 25 phase locked loop (PLL) circuit" was duly and legally issued to Altera by the United States Patent 26 and Trademark Office. Altera is the owner of the entire right, title, and interest in and to the '180 27 Patent. A true and correct copy of the '180 Patent is attached as Exhibit 2 to this Complaint. 28

Altera has not licensed or otherwise authorized Defendants to make, use, offer for
 sale, sell, or import into the United States any products that embody the inventions of the '180
 Patent.

4 27. Defendants have directly infringed and continue to directly infringe the '180 Patent 5 by making, using, offering for sale or selling products including, but not limited to, Gigablaze x1, 6 LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12, 7 LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-24i4e, MegaRAID SAS 9280-8 16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e, 9 MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID SAS 9261-8i, MegaRAID 10 SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, MegaRAID SAS 9240-4i, 11 MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID SAS 84016E, MegaRAID 12 SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 8704EM2, MegaRAID SAS 13 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 8204ELP, LSISAS9212-4i4e, 14 LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, LSISAS3442E-R, LSISAS3041E-R, 15 LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, LSISAS3041X-R, LSISAS3080X-R, 16 LSISAS3801X and Custom ASIC Logic products with SAS Link. 17 28. Defendants have had actual knowledge of the '180 Patent since at least June 25, 18 2009. 19 29. Defendants have indirectly infringed and continue to indirectly infringe the '180 20 Patent by inducing end-users to infringe the '180 Patent by using products including, but not 21 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, 22 LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-23 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, 24 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID 25 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, 26 MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID 27 SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 28 8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 5 8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i,
 LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R,
 LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS
 Link. Defendants intentionally took action that induced end-users to infringe the '180 Patent by
 marketing, selling, and supporting the infringing devices. Defendants had awareness of the '180
 Patent and knew or were willfully blind to the fact that their actions would cause direct
 infringement by end-users.

- 8 Defendants have indirectly infringed and continue to indirectly infringe the '180 30. 9 Patent by contributing to direct infringement by end-users who use products including, but not 10 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, 11 LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-12 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, 13 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID 14 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, 15 MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID 16 SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 17 8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 18 8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, 19 LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, 20 LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS 21 Link. Defendants supplied an important component of the infringing devices; the component is 22 not a common component suitable for non-infringing use; and Defendants supplied the 23 component with the knowledge of the '180 Patent and knowledge that the component was 24 especially made or adapted for use in an infringing manner. 25 31. Upon information and belief, Defendants' infringement of Altera's '180 Patent has 26 been and will continue to be willful, wanton and deliberate. 27
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1	32. Altera is damaged and irreparably injured by Defendants' infringing activities and
2	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
3	are enjoined by this Court.
4	33. Defendants are thus liable to Altera for infringement of the '180 Patent pursuant to
5	35 U.S.C. § 271.
6 7	COUNT III (INFRINGEMENT OF U. S. PATENT NO. 7,227,918)
8	34. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through
9	13 above and incorporates them by reference.
10	35. On June 5, 2007, the '918 Patent entitled "Clock data recovery circuitry associated
11	with programmable logic device circuitry" was duly and legally issued to Altera by the United
12	States Patent and Trademark Office. Altera is the owner of the entire right, title, and interest in
13	and to the '918 Patent. A true and correct copy of the '918 Patent is attached as Exhibit 3 to this
14	Complaint.
15	36. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
16	sale, sell, or import into the United States any products that embody the inventions of the '918
17	Patent.
18	37. Defendants have directly infringed and continue to directly infringe the '918 Patent
19	by making, using, offering for sale or selling products including, but not limited to, Gigablaze x1,
20	LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12,
21	LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-24i4e, MegaRAID SAS 9280-
22	16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e,
23	MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID SAS 9261-8i, MegaRAID
24	SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, MegaRAID SAS 9240-4i,
25	MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID SAS 84016E, MegaRAID
26	SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 8704EM2, MegaRAID SAS
27	8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 8204ELP, LSISAS9212-4i4e,
28	LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, LSISAS3442E-R, LSISAS3041E-R,
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 7

LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS Link.

3 38. Defendants have had actual knowledge of the '918 Patent since at least June 25, 4 2009.

5 39. Defendants have indirectly infringed and continue to indirectly infringe the '918 6 Patent by inducing end-users to infringe the '918 Patent by using products including, but not 7 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, 8 LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-9 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, 10 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID 11 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, 12 MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID 13 SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 14 8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 15 8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, 16 LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, 17 LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS 18 Link. Defendants intentionally took action that induced end-users to infringe the '918 Patent by 19 marketing, selling, and supporting the infringing devices. Defendants had awareness of the '918 20 Patent and knew or were willfully blind to the fact that their actions would cause direct 21 infringement by end-users.

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40. Defendants have indirectly infringed and continue to indirectly infringe the '918 23 Patent by contributing to direct infringement by end-users who use products including, but not 24 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36,

25 LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-

26 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e,

27 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID

28 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT

1	MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID
2	SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS
3	8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS
4	8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i,
5	LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R,
6	LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS
7	Link. Defendants supplied an important component of the infringing devices; the component is
8	not a common component suitable for non-infringing use; and Defendants supplied the
9	component with the knowledge of the '918 Patent and knowledge that the component was
10	especially made or adapted for use in an infringing manner.
11	41. Upon information and belief, Defendants' infringement of Altera's '918 Patent has
12	been and will continue to be willful, wanton and deliberate.
13	42. Altera is damaged and irreparably injured by Defendants' infringing activities and
14	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
15	are enjoined by this Court.
16	43. Defendants are thus liable to Altera for infringement of the '918 Patent pursuant to
17	35 U.S.C. § 271.
18	COUNT IV
19	(INFRINGEMENT OF U. S. PATENT NO. 6,798,302)
20	44. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through
21	13 above and incorporates them by reference.
22	45. On September 28, 2004, the '302 Patent entitled "Analog implementation of spread
23	spectrum frequency modulation in a programmable phase locked loop (PLL) system" was duly
24	and legally issued to Altera by the United States Patent and Trademark Office. Altera is the
25	owner of the entire right, title, and interest in and to the '302 Patent. A true and correct copy of
26	the '302 Patent is attached as Exhibit 4 to this Complaint.
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COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT

1 46. Altera has not licensed or otherwise authorized Defendants to make, use, offer for 2 sale, sell, or import into the United States any products that embody the inventions of the '302 3 Patent.

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4	47. Defendants have directly infringed and continue to directly infringe the '302 Patent
5	by making, using, offering for sale or selling products including, but not limited to, Gigablaze x1,
6	LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12,
7	LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-24i4e, MegaRAID SAS 9280-
8	16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e,
9	MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID SAS 9261-8i, MegaRAID
10	SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, MegaRAID SAS 9240-4i,
11	MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID SAS 84016E, MegaRAID
12	SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 8704EM2, MegaRAID SAS
13	8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 8204ELP, LSISAS9212-4i4e,
14	LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, LSISAS3442E-R, LSISAS3041E-R,
15	LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, LSISAS3041X-R, LSISAS3080X-R,
16	LSISAS3801X and Custom ASIC Logic products with SAS Link.
17	48. Defendants have had actual knowledge of the '302 Patent since at least February 17,
10	2011
18	2011.
18	49. Defendants have indirectly infringed and continue to indirectly infringe the '302
19	49. Defendants have indirectly infringed and continue to indirectly infringe the '302
19 20	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not
19 20 21	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36,
19 20 21 22	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-
 19 20 21 22 23 	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280- 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e,
 19 20 21 22 23 24 	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280- 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID
 19 20 21 22 23 24 25 	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280- 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i,
 19 20 21 22 23 24 25 26 	49. Defendants have indirectly infringed and continue to indirectly infringe the '302 Patent by inducing end-users to infringe the '302 Patent by using products including, but not limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280- 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID

8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i,
 LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R,
 LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS
 Link. Defendants intentionally took action that induced end-users to infringe the '302 Patent by
 marketing, selling, and supporting the infringing devices. Defendants had awareness of the '302
 Patent and knew or were willfully blind to the fact that their actions would cause direct
 infringement by end-users.

8 Defendants have indirectly infringed and continue to indirectly infringe the '302 50. 9 Patent by contributing to direct infringement by end-users who use products including, but not 10 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, 11 LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-12 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, 13 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID 14 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, 15 MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID 16 SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 17 8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 18 8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, 19 LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, 20 LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS 21 Link. Defendants supplied an important component of the infringing devices; the component is 22 not a common component suitable for non-infringing use; and Defendants supplied the 23 component with the knowledge of the '302 Patent and knowledge that the component was 24 especially made or adapted for use in an infringing manner. Upon information and belief, Defendants' infringement of Altera's '302 Patent has 25 51. 26 been and will continue to be willful, wanton and deliberate.

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1	52. Altera is damaged and irreparably injured by Defendants' infringing activities and
2	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
3	are enjoined by this Court.
4	53. Defendants are thus liable to Altera for infringement of the '302 Patent pursuant to
5	35 U.S.C. § 271.
6	COUNT V (INFRINGEMENT OF U. S. PATENT NO. 6,985,021)
7	
8 9	54. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through
9 10	13 above and incorporates them by reference.55. On January 10, 2006, the '021 Patent entitled "Circuits and techniques for
10	55. On January 10, 2006, the '021 Patent entitled "Circuits and techniques for conditioning differential signals" was duly and legally issued to Altera by the United States
11	Patent and Trademark Office. Altera is the owner of the entire right, title, and interest in and to
12	the '021 Patent. A true and correct copy of the '021 Patent is attached as Exhibit 5 to this
13	Complaint.
15	56. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
16	sale, sell, or import into the United States any products that embody the inventions of the '021
17	Patent.
18	57. Defendants have directly infringed and continue to directly infringe the '021 Patent
19	by making, using, offering for sale or selling products including, but not limited to, Gigablaze x1,
20	LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, LSISASX28, LSISASX12,
21	LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-24i4e, MegaRAID SAS 9280-
22	16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, MegaRAID SAS 9280-4i4e,
23	MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID SAS 9261-8i, MegaRAID
24	SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, MegaRAID SAS 9240-4i,
25	MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID SAS 84016E, MegaRAID
26	SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 8704EM2, MegaRAID SAS
27	8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 8204ELP, LSISAS9212-4i4e,
28	LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, LSISAS3442E-R, LSISAS3041E-R,
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 12

LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, LSISAS3041X-R, LSISAS3080X-R,

LSISAS3801X and Custom ASIC Logic products with SAS Link.

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3 58. Defendants have had actual knowledge of the '021 Patent since at least February 17,
4 2011.

5 Defendants have indirectly infringed and continue to indirectly infringe the '021 59. 6 Patent by inducing end-users to infringe the '021 Patent by using products including, but not 7 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36, 8 LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-9 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e, 10 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID 11 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, 12 MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID 13 SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS 14 8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS 15 8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i, 16 LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R, 17 LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS 18 Link. Defendants intentionally took action that induced end-users to infringe the '021 Patent by 19 marketing, selling, and supporting the infringing devices. Defendants had awareness of the '021 20 Patent and knew or were willfully blind to the fact that their actions would cause direct 21 infringement by end-users.

22 60. Defendants have indirectly infringed and continue to indirectly infringe the '021
23 Patent by contributing to direct infringement by end-users who use products including, but not
24 limited to, Gigablaze x1, LSISAS1064, LSISAS1064E, LSISAS1068E, LSISASX36,

LSISASX28, LSISASX12, LSISAS1078, LSISAS2008, LSISAS2108, MegaRAID SAS 9280-

26 24i4e, MegaRAID SAS 9280-16i4e, MegaRAID SAS 9280-8e, MegaRAID SAS 9280DE-8e,

27 MegaRAID SAS 9280-4i4e, MegaRAID SAS 9260-16i, MegaRAID SAS 9260-8i, MegaRAID

28 SAS 9261-8i, MegaRAID SAS 9260DE-8i, MegaRAID SAS 9260-4i, MegaRAID SAS 9240-8i, COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 13

1	MegaRAID SAS 9240-4i, MegaRAID SAS 8888ELP, MegaRAID SAS 8880EM2, MegaRAID
2	SAS 84016E, MegaRAID SAS 8708EM2, MegaRAID SAS 8708ELP, MegaRAID SAS
3	8704EM2, MegaRAID SAS 8704ELP, MegaRAID SAS 8208ELP, and MegaRAID SAS
4	8204ELP, LSISAS9212-4i4e, LSISAS9201-16i, LSISAS9211-8i, LSISAS9211-4i,
5	LSISAS3442E-R, LSISAS3041E-R, LSISAS3081E-R, LSISAS3801E, LSISAS3442X-R,
6	LSISAS3041X-R, LSISAS3080X-R, LSISAS3801X and Custom ASIC Logic products with SAS
7	Link. Defendants supplied an important component of the infringing devices; the component is
8	not a common component suitable for non-infringing use; and Defendants supplied the
9	component with the knowledge of the '021 Patent and knowledge that the component was
10	especially made or adapted for use in an infringing manner.
11	61. Upon information and belief, Defendants' infringement of Altera's '021 Patent has
12	been and will continue to be willful, wanton and deliberate.
13	62. Altera is damaged and irreparably injured by Defendants' infringing activities and
14	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
15	are enjoined by this Court.
16	63. Defendants are thus liable to Altera for infringement of the '021 Patent pursuant to
17	35 U.S.C. § 271.
18	COUNT VI
19	(INFRINGEMENT OF U. S. PATENT NO. 5,822,553)
20	64. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through
21	13 above and incorporates them by reference.
22	65. On October 13, 1998, the '553 Patent entitled "Multiple parallel digital data stream
23	channel controller architecture" was duly and legally issued to Diamond Multimedia Systems,
24	Inc. by the United States Patent and Trademark Office. Altera is the current owner of the entire
25	right, title, and interest in and to the '553 Patent. A true and correct copy of the '553 Patent is
26	attached as Exhibit 6 to this Complaint.
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66. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
 sale, sell, or import into the United States any products that embody the inventions of the '553
 Patent.

4 67. Defendants have directly infringed and continue to directly infringe the '553 Patent
5 by making, using, offering for sale or selling products including, but not limited to, StarPro 2603,
6 2612 and 2704.

7 68. Defendants have had actual knowledge of the '553 Patent since at least June 25,
8 2009.

9 69. Defendants have indirectly infringed and continue to indirectly infringe the '553
10 Patent by inducing end-users to infringe the '553 Patent by using products including, but not
11 limited to, StarPro 2603, 2612 and 2704. Defendants intentionally took action that induced end12 users to infringe the '553 Patent by marketing, selling, and supporting the infringing devices.
13 Defendants had awareness of the '553 Patent and knew or were willfully blind to the fact that
14 their actions would cause direct infringement by end-users.

15 70. Defendants have indirectly infringed and continue to indirectly infringe the '553
16 Patent by contributing to direct infringement by end-users who use products including, but not
17 limited to, StarPro 2603, 2612 and 2704. Defendants supplied an important component of the
18 infringing devices; the component is not a common component suitable for non-infringing use;
19 and Defendants supplied the component with the knowledge of the '553 Patent and knowledge
20 that the component was especially made or adapted for use in an infringing manner.

21 71. Upon information and belief, Defendants' infringement of Altera's '553 Patent has
22 been and will continue to be willful, wanton and deliberate.

72. Altera is damaged and irreparably injured by Defendants' infringing activities and
will continue to be so damaged and irreparably injured unless Defendants' infringing activities
are enjoined by this Court.

26 73. Defendants are thus liable to Altera for infringement of the '553 Patent pursuant to
27 35 U.S.C. § 271.

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1 COUNT VII (INFRINGEMENT OF U.S. PATENT NO. 5,784,649) 2 74. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through 3 13 above and incorporates them by reference. 4 On July 21, 1998, the '649 Patent entitled "Multi-threaded FIFO pool buffer and 75. 5 bus transfer control system" was duly and legally issued to Diamond Multimedia Systems, Inc. by 6 the United States Patent and Trademark Office. Altera is the current owner of the entire right, 7 title, and interest in and to the '649 Patent. A true and correct copy of the '649 Patent is attached 8 as Exhibit 7 to this Complaint. 9 76. Altera has not licensed or otherwise authorized Defendants to make, use, offer for 10 sale, sell, or import into the United States any products that embody the inventions of the '649 11 Patent. 12 77. Defendants have directly infringed and continue to directly infringe the '649 Patent 13 by making, using, offering for sale or selling products including, but not limited to, StarPro 2603, 14 2612 and 2704. 15 78. Defendants have had actual knowledge of the '649 Patent since at least June 25, 16 2009. 17 79. Defendants have indirectly infringed and continue to indirectly infringe the '649 18 Patent by inducing end-users to infringe the '649 Patent by using products including, but not 19 limited to, StarPro 2603, 2612 and 2704. Defendants intentionally took action that induced end-20 users to infringe the '649 Patent by marketing, selling, and supporting the infringing devices. 21 Defendants had awareness of the '649 Patent and knew or were willfully blind to the fact that 22 23 their actions would cause direct infringement by end-users. 80. Defendants have indirectly infringed and continue to indirectly infringe the '649 24 Patent by contributing to direct infringement by end-users who use products including, but not 25 limited to, StarPro 2603, 2612 and 2704. Defendants supplied an important component of the 26 infringing devices; the component is not a common component suitable for non-infringing use; 27 28 COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 16

1	and Defendants supplied the component with the knowledge of the '649 Patent and knowledge
2	that the component was especially made or adapted for use in an infringing manner.
3	81. Upon information and belief, Defendants' infringement of Altera's '649 Patent has
4	been and will continue to be willful, wanton and deliberate.
5	82. Altera is damaged and irreparably injured by Defendants' infringing activities and
6	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
7	are enjoined by this Court.
8	83. Defendants are thus liable to Altera for infringement of the '649 Patent pursuant to
9	35 U.S.C. § 271.
10	COUNT VIII
11	(INFRINGEMENT OF U. S. PATENT NO. RE40,883)
12	84. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through
13	13 above and incorporates them by reference.
14	85. On August 25, 2009, the '883 Patent entitled "Methods and apparatus for dynamic
15	instruction controlled reconfigurable register file with extended precision" was duly and legally
16	issued to Altera by the United States Patent and Trademark Office. Altera is the owner of the
17	entire right, title, and interest in and to the '883 Patent. A true and correct copy of the '883 Patent
18	is attached as Exhibit 8 to this Complaint.
19	86. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
20	sale, sell, or import into the United States any products that embody the inventions of the '883
21	Patent.
22	87. Defendants have directly infringed and continue to directly infringe the '883 Patent
23	by making, using, offering for sale or selling products including, but not limited to, StarPro 2603,
24	2612, 2704, and 2716.
25	88. Defendants have had actual knowledge of the '883 Patent since at least February 17,
26	2011.
27	89. Defendants have indirectly infringed and continue to indirectly infringe the '883
28	Patent by inducing end-users to infringe the '883 Patent by using products including, but not
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 17

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1 limited to, StarPro 2603, 2612, 2704, and 2716. Defendants intentionally took action that induced 2 end-users to infringe the '883 Patent by marketing, selling, and supporting the infringing devices. 3 Defendants had awareness of the '883 Patent and knew or were willfully blind to the fact that 4 their actions would cause direct infringement by end-users. 5 90. Defendants have indirectly infringed and continue to indirectly infringe the '883 6 Patent by contributing to direct infringement by end-users who use products including, but not 7 limited to, StarPro 2603, 2612, 2704, and 2716. Defendants supplied an important component of 8 the infringing devices; the component is not a common component suitable for non-infringing 9 use; and Defendants supplied the component with the knowledge of the '883 Patent and 10 knowledge that the component was especially made or adapted for use in an infringing manner. 11 Upon information and belief, Defendants' infringement of Altera's '883 Patent has 91. 12 been and will continue to be willful, wanton and deliberate. 13 92. Altera is damaged and irreparably injured by Defendants' infringing activities and 14 will continue to be so damaged and irreparably injured unless Defendants' infringing activities 15 are enjoined by this Court. 16 93. Defendants are thus liable to Altera for infringement of the '883 Patent pursuant to 17 35 U.S.C. § 271. 18 COUNT IX (INFRINGEMENT OF U.S. PATENT NO. 5,834,849) 19 20 94. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through 21 13 above and incorporates them by reference. 22 95. On November 10, 1998, the '849 Patent entitled "High density integrated circuit pad 23 structures" was duly and legally issued to Altera by the United States Patent and Trademark 24 Office. Altera is the owner of the entire right, title, and interest in and to the '849 Patent. A true 25 and correct copy of the '849 Patent is attached as Exhibit 9 to this Complaint. 26 96. Altera has not licensed or otherwise authorized Defendants to make, use, offer for 27 sale, sell, or import into the United States any products that embody the inventions of the '849 28 Patent.

97. Defendants have directly infringed and continue to directly infringe the '849 Patent 2 by making, using, offering for sale or selling products including, but not limited to, SAS 1078, 3 SAS 2108, SAS 2008, B5502C20, and 3075.

4 Defendants have had actual knowledge of the '849 Patent since at least June 25, 98. 5 2009.

6 99. Defendants have indirectly infringed and continue to indirectly infringe the '849 7 Patent by inducing end-users to infringe the '849 Patent by using products including, but not 8 limited to, SAS 1078, SAS 2108, SAS 2008, B5502C20, and 3075. Defendants intentionally took 9 action that induced end-users to infringe the '849 Patent by marketing, selling, and supporting the 10 infringing devices. Defendants had awareness of the '849 Patent and knew or were willfully 11 blind to the fact that their actions would cause direct infringement by end-users.

12 100. Defendants have indirectly infringed and continue to indirectly infringe the '849 13 Patent by contributing to direct infringement by end-users who use products including, but not 14 limited to, SAS 1078, SAS 2108, SAS 2008, B5502C20, and 3075. Defendants supplied an 15 important component of the infringing devices; the component is not a common component 16 suitable for non-infringing use; and Defendants supplied the component with the knowledge of 17 the '849 Patent and knowledge that the component was especially made or adapted for use in an 18 infringing manner.

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101. Upon information and belief, Defendants' infringement of Altera's '849 Patent has 20 been and will continue to be willful, wanton and deliberate.

21 102. Altera is damaged and irreparably injured by Defendants' infringing activities and 22 will continue to be so damaged and irreparably injured unless Defendants' infringing activities 23 are enjoined by this Court.

24 103. Defendants are thus liable to Altera for infringement of the '849 Patent pursuant to 25 35 U.S.C. § 271.

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1 2	COUNT X (INFRINGEMENT OF U. S. PATENT NO. 7,091,613)
3	104. Altera hereby restates and realleges the allegations set forth in paragraphs 1
4	through 13 above and incorporates them by reference.
5	105. On August 15, 2006, the '613 Patent entitled "Elongated bonding pad for wire
6	bonding and sort probing" was duly and legally issued to Altera by the United States Patent and
7	Trademark Office. Altera is the owner of the entire right, title, and interest in and to the '613
8	Patent. A true and correct copy of the '613 Patent is attached as Exhibit 10 to this Complaint.
9	106. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
10	sale, sell, or import into the United States any products that embody the inventions of the '613
11	Patent.
12	107. Defendants have directly infringed and continue to directly infringe the '613
13	Patent by making, using, offering for sale or selling products including, but not limited to,
14	B5502C20 and Muse B2B2 HDD SOC.
15	108. Defendants have had actual knowledge of the '613 Patent since at least June 25,
16	2009
17	109. Defendants have indirectly infringed and continue to indirectly infringe the '613
18	Patent by inducing end-users to infringe the '613 Patent by using products including, but not
19	limited to, B5502C20 and Muse B2B2 HDD SOC. Defendants intentionally took action that
20	induced end-users to infringe the '613 Patent by marketing, selling, and supporting the infringing
21	devices. Defendants had awareness of the '613 Patent and knew or were willfully blind to the
22	fact that their actions would cause direct infringement by end-users.
23	110. Defendants have indirectly infringed and continue to indirectly infringe the '613
24	Patent by contributing to direct infringement by end-users who use products including, but not
25	limited to, B5502C20 and Muse B2B2 HDD SOC. Defendants supplied an important component
26	of the infringing devices; the component is not a common component suitable for non-infringing
27	use; and Defendants supplied the component with the knowledge of the '613 Patent and
28	knowledge that the component was especially made or adapted for use in an infringing manner.
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 20

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1	111. Upon information and belief, Defendants' infringement of Altera's '613 Patent has
2	been and will continue to be willful, wanton and deliberate.
3	112. Altera is damaged and irreparably injured by Defendants' infringing activities and
4	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
5	are enjoined by this Court.
6	113. Defendants are thus liable to Altera for infringement of the '613 Patent pursuant to
7	35 U.S.C. § 271.
8 9	COUNT XI (INFRINGEMENT OF U. S. PATENT NO. 6,342,794)
10	114. Altera hereby restates and realleges the allegations set forth in paragraphs 1
11	through 13 above and incorporates them by reference.
12	115. On January 29, 2002, the '794 Patent entitled "Interface for low-voltage
13	semiconductor devices" was duly and legally issued to Altera by the United States Patent and
14	Trademark Office. Altera is the owner of the entire right, title, and interest in and to the '794
15	Patent. A true and correct copy of the '794 Patent is attached as Exhibit 11 to this Complaint.
16	116. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
17	sale, sell, or import into the United States any products that embody the inventions of the '794
18	Patent.
19	117. Defendants have directly infringed and continue to directly infringe the '794
20	Patent by making, using, offering for sale or selling products including, but not limited to,
21	ET1011.
22	118. Defendants have had actual knowledge of the '794 Patent since at least June 25,
23	2009.
24	119. Defendants have indirectly infringed and continue to indirectly infringe the '794
25	Patent by inducing end-users to infringe the '794 Patent by using products including, but not
26	limited to, ET1011. Defendants intentionally took action that induced end-users to infringe the
27	'794 Patent by marketing, selling, and supporting the above referenced part number. Defendants
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	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 21

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1	had awareness of the '794 Patent and knew or were willfully blind to the fact that their actions
2	would cause direct infringement by end-users.
3	120. Defendants have indirectly infringed and continue to indirectly infringe the '794
4	Patent by contributing to direct infringement by end-users who use products including, but not
5	limited to, ET1011. Defendants supplied an important component of the infringing devices; the
6	component is not a common component suitable for non-infringing use; and Defendants supplied
7	the component with the knowledge of the '794 Patent and knowledge that the component was
8	especially made or adapted for use in an infringing manner.
9	121. Upon information and belief, Defendants' infringement of Altera's '794 Patent has
10	been and will continue to be willful, wanton and deliberate.
11	122. Altera is damaged and irreparably injured by Defendants' infringing activities and
12	will continue to be so damaged and irreparably injured unless Defendants' infringing activities
13	are enjoined by this Court.
14	123. Defendants are thus liable to Altera for infringement of the '794 Patent pursuant to
15	35 U.S.C. § 271.
16 17	COUNT XII (INFRINGEMENT OF U. S. PATENT NO. 6,859,064)
18	124. Altera hereby restates and realleges the allegations set forth in paragraphs 1
19	through 13 above and incorporates them by reference.
20	125. On February 22, 2005, the '064 Patent entitled "Techniques for reducing leakage
21	current in on-chip impedance termination circuits" was duly and legally issued to Altera by the
22	United States Patent and Trademark Office. Altera is the owner of the entire right, title, and
23	interest in and to the '064 Patent. A true and correct copy of the '064 Patent is attached as
24	Exhibit 12 to this Complaint.
25	126. Altera has not licensed or otherwise authorized Defendants to make, use, offer for
26	sale, sell, or import into the United States any products that embody the inventions of the '064
27	Patent.
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	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 22

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Defendants have directly infringed and continue to directly infringe the '064 127. 2 Patent by making, using, offering for sale or selling products including, but not limited to, 3 ET1011.

4 128. Defendants have had actual knowledge of the '064 Patent since at least June 25, 5 2009.

6 129. Defendants have indirectly infringed and continue to indirectly infringe the '064 7 Patent by inducing end-users to infringe the '064 Patent by using products including, but not 8 limited to, ET1011. Defendants intentionally took action that induced end-users to infringe the 9 '064 Patent by marketing, selling, and supporting the above referenced part number. Defendants 10 had awareness of the '064 Patent and knew or were willfully blind to the fact that their actions 11 would cause direct infringement by end-users.

12 130. Defendants have indirectly infringed and continue to indirectly infringe the '064 13 Patent by contributing to direct infringement by end-users who use products including, but not 14 limited to, ET1011. Defendants supplied an important component of the infringing devices; the 15 component is not a common component suitable for non-infringing use; and Defendants supplied 16 the component with the knowledge of the '064 Patent and knowledge that the component was 17 especially made or adapted for use in an infringing manner.

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Upon information and belief, Defendants' infringement of Altera's '064 Patent has 131. been and will continue to be willful, wanton and deliberate.

20 132. Altera is damaged and irreparably injured by Defendants' infringing activities and 21 will continue to be so damaged and irreparably injured unless Defendants' infringing activities 22 are enjoined by this Court.

23 133. Defendants are thus liable to Altera for infringement of the '064 Patent pursuant to 24 35 U.S.C. § 271.

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DECLARATORY JUDGMENT OF NONINFRINGEMENT AND INVALIDITY

26 134. Prior to the filing of this Complaint, LSI made express assertions to Altera that 27 Altera's products, including at least Altera's Quartus II® software and Altera's Stratix®, Arria®, 28 Cyclone[®], MAX[®] and HardCopy[®] product families, allegedly infringe certain disputed claims COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT

of U.S. Patent Nos. 5,222,030, 5,526,277, 5,801,958, 6,564,361, 6,640,333, 6,118,177, 5,952,726,
 6,313,683, 6,028,467, 6,157,215, 6,459,313, 5,731,711. LSI represents that it owns and has the
 right to enforce these LSI patents, either directly or through its wholly-owned subsidiary Agere.
 Altera has a reasonable apprehension that Altera may be sued on the basis of such claims.

135. By virtue of these acts, an actual and justiciable controversy exists between the
parties concerning Altera's liability for the alleged infringement of the disputed claims of the
patents-in-suit. Altera now seeks a declaratory judgment of noninfringement and invalidity of the
disputed claims of the LSI patents-in-suit.

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COUNT XIII (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,222,030)

11 136. Altera hereby restates and realleges the allegations set forth in paragraphs 1
12 through 13 and paragraphs 134 through 135 above and incorporates them by reference.

13 137. As a result of Defendants' allegations of infringement against Altera, an actual
14 controversy exists as to the infringement of the disputed claims of the '030 Patent entitled
15 "Methodology for deriving executable low-level structural descriptions and valid physical
16 implementations of circuits and systems from high-level semantic specifications and descriptions
17 thereof." A true and correct copy of the '030 Patent is attached hereto as Exhibit 13.

18 138. Altera is not infringing and has not infringed, either directly or indirectly, any
19 disputed claim of the '030 Patent.

20 139. As a result of Defendants' allegations of infringement against Altera, an actual
21 controversy exists as to the validity of the disputed claims of '030 Patent.

140. The disputed claims of the '030 Patent are invalid for failure to meet one of more
requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
112, and 116.

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COUNT XIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,526,277)

27 141. Altera hereby restates and realleges the allegations set forth in paragraphs 1
28 through 13 and paragraphs 134 through 135 above and incorporates them by reference.

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1	142. As a result of Defendants' allegations of infringement against Altera, an actual
2	controversy exists as to the infringement of the disputed claims of the '277 Patent entitled
3	"ECAD system for deriving executable low-level structural descriptions and valid physical
4	implementations of circuits and systems from high-level semantic descriptions thereof." A true
5	and correct copy of the '277 Patent is attached hereto as Exhibit 14.
6	143. Altera is not infringing and has not infringed, either directly or indirectly, any
7	disputed claim of the '277 Patent.
8	144. As a result of Defendants' allegations of infringement against Altera, an actual
9	controversy exists as to the validity of the disputed claims of '277 Patent.
10	145. The disputed claims of the '277 Patent are invalid for failure to meet one of more
11	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
12	112, and 116.
13	COUNT XV
14	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 5,801,958)
15	146. Altera hereby restates and realleges the allegations set forth in paragraphs 1
16	through 13 and paragraphs 134 through 135 above and incorporates them by reference.
17	147. As a result of Defendants' allegations of infringement against Altera, an actual
18	controversy exists as to the infringement of the disputed claims of the '958 Patent entitled
19	"Method and system for creating and validating low level description of electronic design from
20	higher level, behavior-oriented description, including interactive system for hierarchical display
21	of control and dataflow information." A true and correct copy of the '958 Patent is attached
22	hereto as Exhibit 15.
23	148. Altera is not infringing and has not infringed, either directly or indirectly, any
24	disputed claim of the '958 Patent.
25	149. As a result of Defendants' allegations of infringement against Altera, an actual
26	controversy exists as to the validity of the disputed claims of '958 Patent.
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	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 25

1	150. The disputed claims of the '958 Patent are invalid for failure to meet one of more
2	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
3	112, and 116.
4	COUNT XVI
5	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,564,361)
6	151. Altera hereby restates and realleges the allegations set forth in paragraphs 1
7	through 13 and paragraphs 134 through 135 above and incorporates them by reference.
8	152. As a result of Defendants' allegations of infringement against Altera, an actual
9	controversy exists as to the infringement of the disputed claims of the '361 Patent entitled
10	"Method and apparatus for timing driven resynthesis." A true and correct copy of the '361 Patent
11	is attached hereto as Exhibit 16.
12	153. Altera is not infringing and has not infringed, either directly or indirectly, any
13	disputed claim of the '361 Patent.
14	154. As a result of Defendants' allegations of infringement against Altera, an actual
15	controversy exists as to the validity of the disputed claims of '361 Patent.
16	155. The disputed claims of the '361 Patent are invalid for failure to meet one of more
17	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
18	112, and 116.
19	COUNT XVII
20	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,640,333)
21	156. Altera hereby restates and realleges the allegations set forth in paragraphs 1
22	through 13 and paragraphs 134 through 135 above and incorporates them by reference.
23	157. As a result of Defendants' allegations of infringement against Altera, an actual
24	controversy exists as to the infringement of the disputed claims of the '333 Patent entitled
25	"Architecture for a sea of platforms." A true and correct copy of the '333 Patent is attached
26	hereto as Exhibit 17.
27	158. Altera is not infringing and has not infringed, either directly or indirectly, any
28	disputed claim of the '333 Patent.
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 26

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1	159. As a result of Defendants' allegations of infringement against Altera, an actual
2	controversy exists as to the validity of the disputed claims of '333 Patent.
3	160. The disputed claims of the '333 Patent are invalid for failure to meet one of more
4	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
5	112, and 116.
6	COUNT XVIII
7	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,118,177)
8	161. Altera hereby restates and realleges the allegations set forth in paragraphs 1
9	through 13 and paragraphs 134 through 135 above and incorporates them by reference.
10	162. As a result of Defendants' allegations of infringement against Altera, an actual
11	controversy exists as to the infringement of the disputed claims of the '177 Patent entitled
12	"Heatspreader for a flip chip device, and method for connecting the heatspreader." A true and
13	correct copy of the '177 Patent is attached hereto as Exhibit 18.
14	163. Altera is not infringing and has not infringed, either directly or indirectly, any
15	disputed claim of the '177 Patent.
16	164. As a result of Defendants' allegations of infringement against Altera, an actual
17	controversy exists as to the validity of the disputed claims of '177 Patent.
18	165. The disputed claims of the '177 Patent are invalid for failure to meet one of more
19	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
20	112, and 116.
21	COUNT XIX (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,952,726)
22	
23	166. Altera hereby restates and realleges the allegations set forth in paragraphs 1
24	through 13 and paragraphs 134 through 135 above and incorporates them by reference.
25	167. As a result of Defendants' allegations of infringement against Altera, an actual
26	controversy exists as to the infringement of the disputed claims of the '726 Patent entitled "Flip
27	chip bump distribution on die." A true and correct copy of the '726 Patent is attached hereto as
28	Exhibit 19.
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 27

Altera is not infringing and has not infringed, either directly or indirectly, any 1 168. 2 disputed claim of the '726 Patent. 3 169. As a result of Defendants' allegations of infringement against Altera, an actual 4 controversy exists as to the validity of the disputed claims of '726 Patent. 5 The disputed claims of the '726 Patent are invalid for failure to meet one of more 170. 6 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103, 7 112, and 116. 8 COUNT XX (NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,313,683) 9 10 Altera hereby restates and realleges the allegations set forth in paragraphs 1 171. 11 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 12 As a result of Defendants' allegations of infringement against Altera, an actual 172. 13 controversy exists as to the infringement of the disputed claims of the '683 Patent entitled 14 "Method of providing clock signals to load circuits in an ASIC device." A true and correct copy 15 of the '683 Patent is attached hereto as Exhibit 20. 16 Altera is not infringing and has not infringed, either directly or indirectly, any 173. 17 disputed claim of the '683 Patent. 18 As a result of Defendants' allegations of infringement against Altera, an actual 174. 19 controversy exists as to the validity of the disputed claims of '683 Patent. 20 175. The disputed claims of the '683 Patent are invalid for failure to meet one of more 21 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103, 22 112, and 116. 23 COUNT XXI (NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,028,467) 24 25 176. Altera hereby restates and realleges the allegations set forth in paragraphs 1 26 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 27 177. As a result of Defendants' allegations of infringement against Altera, an actual 28 controversy exists as to the infringement of the disputed claims of the '467 Patent entitled COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 28

1	"Differential output circuit." A true and correct copy of the '467 Patent is attached hereto as	
2	Exhibit 21.	
3	178. Altera is not infringing and has not infringed, either directly or indirectly, any	
4	disputed claim of the '467 Patent.	
5	179. As a result of Defendants' allegations of infringement against Altera, an actual	
6	controversy exists as to the validity of the disputed claims of '467 Patent.	
7	180. The disputed claims of the '467 Patent are invalid for failure to meet one of more	
8	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,	,
9	112, and 116.	
10	COUNT XXII	
11	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,157,215)	
12	181. Altera hereby restates and realleges the allegations set forth in paragraphs 1	
13	through 13 and paragraphs 134 through 135 above and incorporates them by reference.	
14	182. As a result of Defendants' allegations of infringement against Altera, an actual	
15	controversy exists as to the infringement of the disputed claims of the '215 Patent entitled	
16	"Method and apparatus for controlling impedance." A true and correct copy of the '215 Patent is	
17	attached hereto as Exhibit 22.	
18	183. Altera is not infringing and has not infringed, either directly or indirectly, any	
19	disputed claim of the '215 Patent.	
20	184. As a result of Defendants' allegations of infringement against Altera, an actual	
21	controversy exists as to the validity of the disputed claims of '215 Patent.	
22	185. The disputed claims of the '215 Patent are invalid for failure to meet one of more	
23	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,	,
24	112, and 116.	
25	COUNT XXIII (NONINEDINGEMENT AND INVALIDITY OF U.C. DATENT NO. (459,212)	
26	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 6,459,313)	
27	186. Altera hereby restates and realleges the allegations set forth in paragraphs 1	
28	through 13 and paragraphs 134 through 135 above and incorporates them by reference.	
	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 29)

 controversy exists as to the infringement of the disputed claims of the '313 Patent entitled " power management: synchronously regulated output skew." A true and correct copy of the Patent is attached hereto as Exhibit 23. 188. Altera is not infringing and has not infringed, either directly or indirectly, an disputed claim of the '313 Patent. 189. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '313 Patent. 190. The disputed claims of the '313 Patent are invalid for failure to meet one of 10 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 192. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the infringement of the disputed claims of the '711 Patent entitled "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of patent 		
3 power management: synchronously regulated output skew." A true and correct copy of the 4 Patent is attached hereto as Exhibit 23. 5 188. Altera is not infringing and has not infringed, either directly or indirectly, and 6 disputed claim of the '313 Patent. 7 189. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '313 Patent. 9 190. The disputed claims of the '313 Patent are invalid for failure to meet one of 10 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 111 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 17 renewit chains is ant infringing and has not infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 18 '193. Altera is not infringing and has not infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. <td>1</td> <td>187. As a result of Defendants' allegations of infringement against Altera, an actual</td>	1	187. As a result of Defendants' allegations of infringement against Altera, an actual
4 Patent is attached hereto as Exhibit 23. 5 188. Altera is not infringing and has not infringed, either directly or indirectly, and disputed claim of the '313 Patent. 7 189. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '313 Patent. 9 190. The disputed claims of the '313 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102. 11 112, and 116. 20 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711). 13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 192. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the infringement of the disputed claims of the '711 Patent entitled "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 193. Altera is not infringing and has not infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. <td>2</td> <td>controversy exists as to the infringement of the disputed claims of the '313 Patent entitled "IO</td>	2	controversy exists as to the infringement of the disputed claims of the '313 Patent entitled "IO
5 188. Altera is not infringing and has not infringed, either directly or indirectly, and 6 disputed claim of the '313 Patent. 7 189. As a result of Defendants' allegations of infringement against Altera, an acture 8 controversy exists as to the validity of the disputed claims of '313 Patent. 9 190. The disputed claims of the '313 Patent are invalid for failure to meet one of the 10 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 11 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 14 191. Altera hereby restates and realleges the allegations of the '711 Patent entitled 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an acture 17 controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 10 193. Altera is not infringing and has not infringement against Altera, an acture	3	power management: synchronously regulated output skew." A true and correct copy of the '313
6 disputed claim of the '313 Patent. 7 189. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '313 Patent. 9 190. The disputed claims of the '313 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 11 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the infringement of the disputed claims of the '711 Patent entitled "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 10 193. Altera is not infringing and has not infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '7111 Patent. 195. The disputed clai	4	Patent is attached hereto as Exhibit 23.
7 189. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '313 Patent. 9 190. The disputed claims of the '313 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102. 11 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1. 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1. 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the infringement of the disputed claims of the '711 Patent entitled. 19 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '711 Patent. 194 195. The disputed claims of the '711 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102. 195 The disputed claims of the '711 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102. 196	5	188. Altera is not infringing and has not infringed, either directly or indirectly, any
 controversy exists as to the validity of the disputed claims of '313 Patent. 190. The disputed claims of the '313 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 112, and 116. COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 192. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the infringement of the disputed claims of the '711 Patent entitled "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringed, either directly or indirectly, an disputed claim of the '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of prequirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 112, and 116. PRAYER FOR RELIEF 	6	disputed claim of the '313 Patent.
9 190. The disputed claims of the '313 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102. 11 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 20 193. Altera is not infringing and has not infringed, either directly or indirectly, and disputed claim of the '711 Patent. 21 194. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '711 Patent. 23 195. The disputed claims of the '711 Patent. 24 195. The disputed claims of the '711 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102.	7	189. As a result of Defendants' allegations of infringement against Altera, an actual
10 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 11 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 10 193. Altera is not infringing and has not infringed, either directly or indirectly, and disputed claim of the '711 Patent. 12 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 13 195. The disputed claims of the '711 Patent are invalid for failure to meet one of 10 15 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 16 12, and 116. 17 PRAYER FOR RELIEF	8	controversy exists as to the validity of the disputed claims of '313 Patent.
11 112, and 116. 12 COUNT XXIV (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 10 193. Altera is not infringing and has not infringed, either directly or indirectly, and disputed claim of the '711 Patent. 12 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 13 195. The disputed claims of the '711 Patent are invalid for failure to meet one of 10 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. 27 PRAYER FOR RELIEF	9	190. The disputed claims of the '313 Patent are invalid for failure to meet one of more
12 COUNT XXIV 13 (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an acture 17 controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 10 193. Altera is not infringing and has not infringed, either directly or indirectly, and 21 disputed claim of the '711 Patent. 22 194. As a result of Defendants' allegations of infringement against Altera, an acture 23 controversy exists as to the validity of the disputed claims of '711 Patent. 24 195. The disputed claims of the '711 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 25 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 26 112, and 116. 27 PRAYER FOR RELIEF	10	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
13 (NONINFRINGEMENT AND INVALIDITY OF U. S. PATENT NO. 5,731,711) 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an actu 17 controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 10 193. Altera is not infringing and has not infringed, either directly or indirectly, and 11 disputed claim of the '711 Patent. 12 194. As a result of Defendants' allegations of infringement against Altera, an actu 13 controversy exists as to the validity of the disputed claims of '711 Patent. 14 195. The disputed claims of the '711 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. 27 PRAYER FOR RELIEF	11	112, and 116.
13 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 14 191. Altera hereby restates and realleges the allegations set forth in paragraphs 1 15 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 16 192. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '71 19 Patent is attached hereto as Exhibit 24. 20 193. Altera is not infringing and has not infringed, either directly or indirectly, and disputed claim of the '711 Patent. 21 194. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '711 Patent. 23 controversy exists as to the validity of the disputed claims of '711 Patent. 24 195. The disputed claims of the '711 Patent are invalid for failure to meet one of 10 25 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 26 112, and 116. 27 PRAYER FOR RELIEF	12	
 through 13 and paragraphs 134 through 135 above and incorporates them by reference. 192. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the infringement of the disputed claims of the '711 Patent entitled "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringed, either directly or indirectly, and disputed claim of the '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an acture controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of the requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	13	(NONINFRINGEMENT AND INVALIDITY OF U.S. PATENT NO. 5,/31,/11)
192. As a result of Defendants' allegations of infringement against Altera, an acture 17 controversy exists as to the infringement of the disputed claims of the '711 Patent entitled 18 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711 19 Patent is attached hereto as Exhibit 24. 20 193. Altera is not infringing and has not infringed, either directly or indirectly, and 21 disputed claim of the '711 Patent. 22 194. As a result of Defendants' allegations of infringement against Altera, an acture 23 controversy exists as to the validity of the disputed claims of '711 Patent. 24 195. The disputed claims of the '711 Patent are invalid for failure to meet one of patient is of Title 35 of the United States Code, including but not limited to, §§ 101, 102 25 PRAYER FOR RELIEF	14	191. Altera hereby restates and realleges the allegations set forth in paragraphs 1
 controversy exists as to the infringement of the disputed claims of the '711 Patent entitled "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '71 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringed, either directly or indirectly, an disputed claim of the '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	15	through 13 and paragraphs 134 through 135 above and incorporates them by reference.
 "Integrated circuit chip with adaptive input-output port." A true and correct copy of the '71 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringed, either directly or indirectly, an disputed claim of the '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	16	192. As a result of Defendants' allegations of infringement against Altera, an actual
 Patent is attached hereto as Exhibit 24. 193. Altera is not infringing and has not infringed, either directly or indirectly, an disputed claim of the '711 Patent. 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	17	controversy exists as to the infringement of the disputed claims of the '711 Patent entitled
 20 193. Altera is not infringing and has not infringed, either directly or indirectly, and 21 disputed claim of the '711 Patent. 22 194. As a result of Defendants' allegations of infringement against Altera, an acture 23 controversy exists as to the validity of the disputed claims of '711 Patent. 24 195. The disputed claims of the '711 Patent are invalid for failure to meet one of the 25 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 26 112, and 116. 27 PRAYER FOR RELIEF 	18	"Integrated circuit chip with adaptive input-output port." A true and correct copy of the '711
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 194. As a result of Defendants' allegations of infringement against Altera, an actu controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	20	193. Altera is not infringing and has not infringed, either directly or indirectly, any
 controversy exists as to the validity of the disputed claims of '711 Patent. 195. The disputed claims of the '711 Patent are invalid for failure to meet one of prequirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	21	disputed claim of the '711 Patent.
 24 195. The disputed claims of the '711 Patent are invalid for failure to meet one of requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 26 112, and 116. 27 PRAYER FOR RELIEF 	22	194. As a result of Defendants' allegations of infringement against Altera, an actual
 requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102 112, and 116. PRAYER FOR RELIEF 	23	controversy exists as to the validity of the disputed claims of '711 Patent.
26 112, and 116. 27 PRAYER FOR RELIEF	24	195. The disputed claims of the '711 Patent are invalid for failure to meet one of more
27 PRAYER FOR RELIEF	25	requirements of Title 35 of the United States Code, including but not limited to, §§ 101, 102, 103,
	26	112, and 116.
28 WHEREFORE, Altera prays for judgment as follows:	27	<u>PRAYER FOR RELIEF</u>
	28	WHEREFORE, Altera prays for judgment as follows:
COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT		COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 30

1	A. An entry of judgment holding Defendants liable for infringement of the Altera
2	patents-in-suit;
3	B. An order permanently enjoining Defendants, their officers, agents, servants,
4	employees, attorneys and affiliated companies, their assigns and successors in interest, and those
5	persons in active concert or participation with them, from continued acts of infringement of the
6	Altera patents-in-suit;
7	C. An order awarding Altera damages resulting from Defendants' infringement of the
8	Altera patents-in-suit; together with prejudgment and post-judgment interest;
9	D. Trebling of damages under 35 U.S.C. § 284 in view of the willful and deliberate
10	nature of Defendants' infringement of the Altera patents-in-suit;
11	E. A declaration that the disputed claims of the LSI patents-in-suit are not infringed
12	by Altera;
13	F. A declaration that the disputed claims of the LSI patents-in-suit are invalid;
14	G. An order awarding Altera its costs and attorney's fees under 35 U.S.C. § 285; and
15	H. Any and all other legal and equitable relief as may be available under law and
16	which the court may deem proper.
17	Dated: June 24, 2011 MORRISON & FOERSTER LLP /
18	Dated. June 24, 2011 WORKISON & ISLASTER LLP
19	
20	By: KARL J. KRAMER
21	Attorneys for Plaintiff
22	ALTERA CORPORATION
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28	Complaint For Patent Infringement And Declaratory Judgment 31

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1	DEMAND FOR A JURY TRIAL
2	Plaintiff hereby demands a jury trial on all issues so triable under the laws as
3	provide by Rule 38(b) of the Federal Rules of Civil Procedure.
4	Dated: June 24, 2011 MORRISON & FOERSTER LP,
5	
6	ву:
7	KARL J. KRAMER
8	Attorneys for Plaintiff ALTERA CORPORATION
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	COMPLAINT FOR PATENT INFRINGEMENT AND DECLARATORY JUDGMENT 32
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