

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4691727

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZIILABS INC., LTD.	08/09/2017

RECEIVING PARTY DATA

Name:	RPX CORPORATION
Street Address:	ONE MARKET PLAZA
Internal Address:	STEUART TOWER, SUITE 1100
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94105

PROPERTY NUMBERS Total: 21

Property Type	Number
Patent Number:	6597157
Patent Number:	6597628
Patent Number:	6628288
Patent Number:	6667930
Patent Number:	6690369
Patent Number:	6674440
Patent Number:	6700576
Patent Number:	6700581
Patent Number:	6731288
Patent Number:	7616200
Patent Number:	6734860
Patent Number:	6816561
Patent Number:	6847370
Patent Number:	7227556
Patent Number:	6798421
Patent Number:	7466319
Patent Number:	6766410
Patent Number:	6765588
Patent Number:	6894700

PATENT

Property Type	Number
Patent Number:	7301540
Patent Number:	7368831

CORRESPONDENCE DATA

Fax Number: (858)430-2427
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.
Phone: 858-724-2450
Email: scott@mdiplaw.net
Correspondent Name: MUSICK DAVISON LLP
Address Line 1: 12636 HIGH BLUFF DRIVE
Address Line 2: SUITE 400
Address Line 4: SAN DIEGO, CALIFORNIA 92130

ATTORNEY DOCKET NUMBER:	RPX.029
NAME OF SUBMITTER:	SCOTT H. DAVISON
SIGNATURE:	/Scott H Davison/
DATE SIGNED:	11/16/2017

Total Attachments: 60
source=ZiiLabs-RPX_Assignment_21-40#page1.tif
source=ZiiLabs-RPX_Assignment_21-40#page2.tif
source=ZiiLabs-RPX_Assignment_21-40#page3.tif
source=ZiiLabs-RPX_Assignment_21-40#page4.tif
source=ZiiLabs-RPX_Assignment_21-40#page5.tif
source=ZiiLabs-RPX_Assignment_21-40#page6.tif
source=ZiiLabs-RPX_Assignment_21-40#page7.tif
source=ZiiLabs-RPX_Assignment_21-40#page8.tif
source=ZiiLabs-RPX_Assignment_21-40#page9.tif
source=ZiiLabs-RPX_Assignment_21-40#page10.tif
source=ZiiLabs-RPX_Assignment_21-40#page11.tif
source=ZiiLabs-RPX_Assignment_21-40#page12.tif
source=ZiiLabs-RPX_Assignment_21-40#page13.tif
source=ZiiLabs-RPX_Assignment_21-40#page14.tif
source=ZiiLabs-RPX_Assignment_21-40#page15.tif
source=ZiiLabs-RPX_Assignment_21-40#page16.tif
source=ZiiLabs-RPX_Assignment_21-40#page17.tif
source=ZiiLabs-RPX_Assignment_21-40#page18.tif
source=ZiiLabs-RPX_Assignment_21-40#page19.tif
source=ZiiLabs-RPX_Assignment_21-40#page20.tif
source=ZiiLabs-RPX_Assignment_21-40#page21.tif
source=ZiiLabs-RPX_Assignment_21-40#page22.tif
source=ZiiLabs-RPX_Assignment_21-40#page23.tif
source=ZiiLabs-RPX_Assignment_21-40#page24.tif
source=ZiiLabs-RPX_Assignment_21-40#page25.tif
source=ZiiLabs-RPX_Assignment_21-40#page26.tif

source=ZiiLabs-RPX_Assignment_21-40#page27.tif
source=ZiiLabs-RPX_Assignment_21-40#page28.tif
source=ZiiLabs-RPX_Assignment_21-40#page29.tif
source=ZiiLabs-RPX_Assignment_21-40#page30.tif
source=ZiiLabs-RPX_Assignment_21-40#page31.tif
source=ZiiLabs-RPX_Assignment_21-40#page32.tif
source=ZiiLabs-RPX_Assignment_21-40#page33.tif
source=ZiiLabs-RPX_Assignment_21-40#page34.tif
source=ZiiLabs-RPX_Assignment_21-40#page35.tif
source=ZiiLabs-RPX_Assignment_21-40#page36.tif
source=ZiiLabs-RPX_Assignment_21-40#page37.tif
source=ZiiLabs-RPX_Assignment_21-40#page38.tif
source=ZiiLabs-RPX_Assignment_21-40#page39.tif
source=ZiiLabs-RPX_Assignment_21-40#page40.tif
source=ZiiLabs-RPX_Assignment_21-40#page41.tif
source=ZiiLabs-RPX_Assignment_21-40#page42.tif
source=ZiiLabs-RPX_Assignment_21-40#page43.tif
source=ZiiLabs-RPX_Assignment_21-40#page44.tif
source=ZiiLabs-RPX_Assignment_21-40#page45.tif
source=ZiiLabs-RPX_Assignment_21-40#page46.tif
source=ZiiLabs-RPX_Assignment_21-40#page47.tif
source=ZiiLabs-RPX_Assignment_21-40#page48.tif
source=ZiiLabs-RPX_Assignment_21-40#page49.tif
source=ZiiLabs-RPX_Assignment_21-40#page50.tif
source=ZiiLabs-RPX_Assignment_21-40#page51.tif
source=ZiiLabs-RPX_Assignment_21-40#page52.tif
source=ZiiLabs-RPX_Assignment_21-40#page53.tif
source=ZiiLabs-RPX_Assignment_21-40#page54.tif
source=ZiiLabs-RPX_Assignment_21-40#page55.tif
source=ZiiLabs-RPX_Assignment_21-40#page56.tif
source=ZiiLabs-RPX_Assignment_21-40#page57.tif
source=ZiiLabs-RPX_Assignment_21-40#page58.tif
source=ZiiLabs-RPX_Assignment_21-40#page59.tif
source=ZiiLabs-RPX_Assignment_21-40#page60.tif

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6597157		US10/164172	US	Parallel phased switch control	Granted	6/5/2002		7/22/2003

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6597628		US10/114408	US	Auto-disable receive control for ddr receive strobes	Granted	4/2/2002		7/22/2003
	US20030128621	US10/114408	US	Auto-disable receive control for ddr receive strobes	Expired	4/2/2002	7/10/2003	

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZiiLabs Inc., Ltd.

By:

[Signature]

Name:

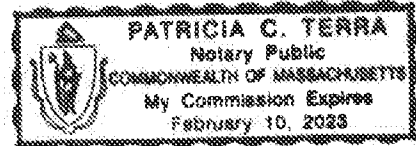
NG KEM LONG

Title:

DIRECTOR

Date:

AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

By:

[Signature]

Name:

EMILY GAVIN

Title:

GENERAL COUNSEL

Date:

SEPTEMBER 19, 2017

Notary Seal:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss.
County of San Francisco)

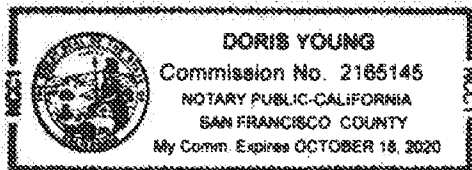
On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Signature]



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6628288		US09/633092	US	Selectable back end unit	Granted	8/4/2000		9/30/2003

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

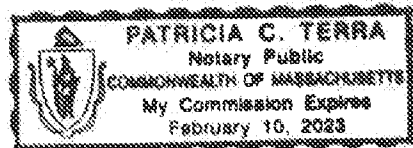
IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZillLabs Inc., Ltd.

By: [Signature]
Name: NG KEN LONG
Title: DIRECTOR
Date: AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By: [Signature]
Name: EMILY GAVIN
Title: GENERAL COUNSEL
Date: SEPTEMBER 19, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

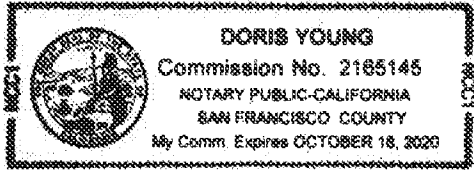
State of California)
) ss.
County of San Francisco)

On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6667930		US10/172461	US	System and method for optimizing performance in a four-bank sdram	Granted	6/12/2002		12/23/2003

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6690369		US08/904715	US	Hardware-accelerated photoreal rendering	Granted	8/1/1997		2/10/2004
		US60/023513	US	HARDWARE-ACCELERATED PHOTOREAL RENDERING	Expired	8/7/1996		
		US60/023795	US	HARDWARE-ACCELERATED PHOTOREAL RENDERING	Expired	8/1/1996		

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

(1) the entire right, title, and interest, everywhere in the world, to

- (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
- (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
- (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6674440		US09/533158	US	Graphics processor for stereoscopically displaying a graphical image	Granted	3/23/2000		1/6/2004

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6700576		US09/535358	US	Variable stride circle rendering apparatus and method	Granted	3/24/2000		3/2/2004
		US60/126034	US	VARIABLE STRIDE CIRCLE RENDERING APPRATUS AND METHOD	Expired	3/25/1999		

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

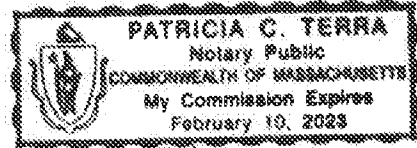
IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZiiLabs Inc., Ltd.

By: [Signature]
Name: NG KEM LONG
Title: DIRECTOR
Date: AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By: [Signature]
Name: EMILY GAVIN
Title: GENERAL COUNSEL
Date: SEPTEMBER 19, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

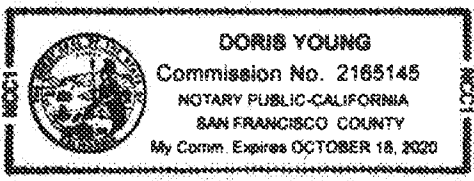
State of California)
) ss.
County of San Francisco)

On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6700581		US10/087654	US	In-circuit test using scan chains	Granted	3/1/2002		3/2/2004
	US20030164825	US10/087654	US	In-circuit test using scan chains	Expired	3/1/2002	9/4/2003	

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZiiLabs Inc., Ltd.

By:

W. K. Long

Name:

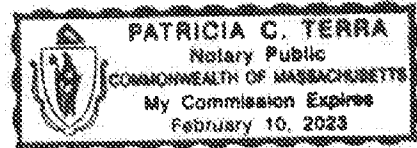
W. K. KEN LONG

Title:

DIRECTOR

Date:

AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By:

Emily Gavin

Name:

EMILY GAVIN

Title:

GENERAL COUNSEL

Date:

SEPTEMBER 19, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss.
County of San Francisco)

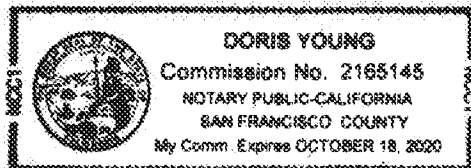
On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Doris Young



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6731288		US10/086981	US	Graphics engine with isochronous context switching	Granted	3/1/2002		5/4/2004
	US20030164824	US10/086981	US	Graphics engine with isochronous context switching	Expired	3/1/2002	9/4/2003	

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule I hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

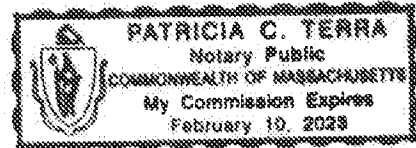
IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZillLabs Inc., Ltd.

By: [Signature]
Name: NG KEN LONG
Title: DIRECTOR
Date: AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By: [Signature]
Name: EMILY GAVIN
Title: GENERAL COUNSEL
Date: SEPTEMBER 19, 2017

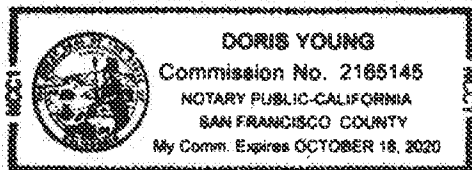
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss.
County of San Francisco)

On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Signature]

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
		US60/089030	US	SYSTEM FOR REDUCING ALIASING ON A DISPLAY DEVICE	Expired	6/12/1998		
US7616200		US09/329557	US	System for reducing aliasing on a display device	Granted	6/10/1999		11/10/2009

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

(1) the entire right, title, and interest, everywhere in the world, to

- (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
- (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
- (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE I

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6734860		US09/632447	US	Apparatus for providing videodriving capability from various types of daes	Granted	8/4/2000		5/11/2004

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

(1) the entire right, title, and interest, everywhere in the world, to

- (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
- (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
- (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

(2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and

(3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6816561		US09/633091	US	Phase correction for multiple processors	Granted	8/4/2000		11/9/2004

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

(1) the entire right, title, and interest, everywhere in the world, to

- (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
- (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
- (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

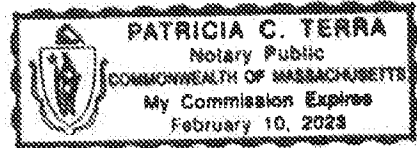
IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZiiLabs Inc., Ltd.

By: [Signature]
Name: NG KEM LONG
Title: DIRECTOR
Date: AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By: [Signature]
Name: EMILY GAVIN
Title: GENERAL COUNSEL
Date: SEPTEMBER 19, 2017

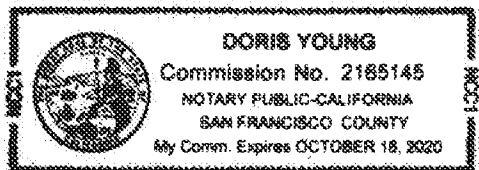
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss.
County of San Francisco)

On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Signature]

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
	US20020126124	US10/080284	US	Planar byte memory organization with linear access	Expired	2/20/2002	9/12/2002	
		US60/269802	US	Planar byte memory organisation with linear access	Expired	2/20/2001		
US6847370		US10/080284	US	Planar byte memory organization with linear access	Granted	2/20/2002		1/25/2005

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US7227556		US10/086986	US	High quality antialiased lines with dual sampling pattern	Granted	3/1/2002		6/5/2007
	US20030164840	US10/086986	US	High quality antialiased lines with dual sampling pattern	Expired	3/1/2002	9/4/2003	

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
		US60/272125	US	Same tile method	Expired	2/28/2001		
US6798421		US10/087233	US	Same tile method	Granted	2/28/2002		9/28/2004
	US20020118202	US10/087233	US	Same tile method	Expired	2/28/2002	8/29/2002	

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US7466319		US10/163793	US	System and method for fast gradient pixel clears in graphics rendering	Granted	6/6/2002		12/16/2008

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

- (B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:
- (1) execute all truthful oaths, assignments, powers, and any other papers;
 - (2) testify in any proceeding; and
 - (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZiiLabs Inc., Ltd.

By:

[Handwritten signature]

Name:

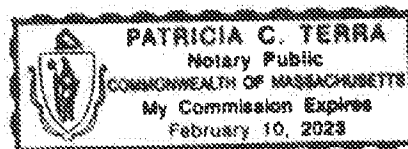
NG KEH LONG

Title:

DIRECTOR

Date:

AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By:

[Handwritten signature]

Name:

EMILY GAVIN

Title:

GENERAL COUNSEL

Date:

SEPTEMBER 19, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
) ss.
County of San Francisco)

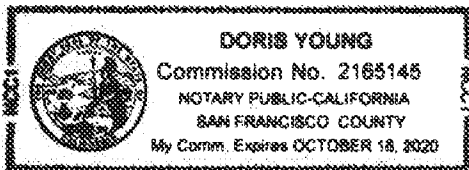
On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Handwritten signature]



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6766410		US10/166155	US	System and method for reordering fragment data based upon rasterization direction	Granted	6/10/2002		7/20/2004

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

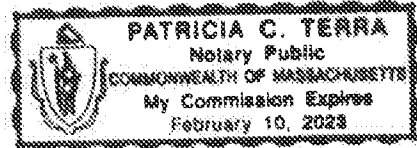
IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZillLabs Inc., Ltd.

By: [Signature]
Name: NG KEH LONG
Title: DIRECTOR
Date: AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By: [Signature]
Name: EMILY GAVIN
Title: GENERAL COUNSEL
Date: SEPTEMBER 19, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

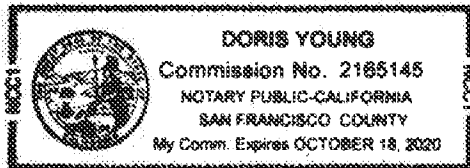
State of California)
) ss.
County of San Francisco)

On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US6765588		US10/230500	US	Multisample dithering with shuffle tables	Granted	8/29/2002		7/20/2004
	US20030128222	US10/230500	US	Multisample dithering with shuffle tables	Expired	8/29/2002	7/10/2003	
		US60/346550	US	Multisampling dithering with shuffle tables	Expired	1/8/2002		
US6894700		US10/786430	US	Multisampling dithering with shuffle tables	Granted	2/25/2004		5/17/2005
	US20040164993	US10/786430	US	Multisample dithering with shuffle tables	Expired	2/25/2004	8/26/2004	

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

SCHEDULE I

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US7301540		US10/634379	US	System and method for rasterization through approximation	Granted	8/5/2003		11/27/2007

PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT ("Patent Assignment"), dated as of August 9, 2017 ("Effective Date"), is entered into by and between ZiiLabs Inc., Ltd., a Bermuda corporation with a registered office at Clarendon House, 2 Church Street, Hamilton, HM11 Bermuda ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
 - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
 - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patents");

- (2) the right to sue third parties for infringement (including but not limited to past, present, and future infringement, damages, and injunctive relief) of the Assigned Patents accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon request of RPX (or its successors, assigns, or legal representatives) to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on July 7, 2017, as updated through the date of the assignment.

The terms and conditions of this Patent Assignment will inure to the benefit of RPX, its successors, assigns, and other legal representatives, and will be binding upon Assignor, its successors, assigns, and other legal representatives.

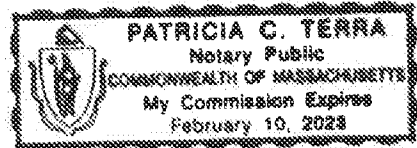
IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her respective party.

Agreed to:

Notary Seal:

ZiiLabs Inc., Ltd.

By: [Signature]
Name: NG KEM LONG
Title: DIRECTOR
Date: AUGUST 9, 2017



Patricia C. Terra

RPX Corporation

Notary Seal:

By: [Signature]
Name: EMILY GAVIN
Title: GENERAL COUNSEL
Date: SEPTEMBER 19, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

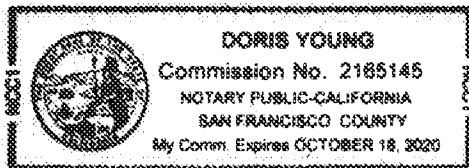
State of California)
) ss.
County of San Francisco)

On September 19, 2017 before me, Doris Young, Notary Public, personally appeared Emily Gavin, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]



SCHEDULE 1

PATENTS

Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
US7368831		US10/657053	US	Power converter feedback circuit	Granted	9/5/2003		5/6/2008