

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jun Kim</td> <td>11/14/2011</td> </tr> <tr> <td>Pak Shing Chau</td> <td>11/11/2011</td> </tr> <tr> <td>Wayne S. Richardson</td> <td>11/11/2011</td> </tr> </tbody> </table>		Name	Execution Date	Jun Kim	11/14/2011	Pak Shing Chau	11/11/2011	Wayne S. Richardson	11/11/2011
Name	Execution Date								
Jun Kim	11/14/2011								
Pak Shing Chau	11/11/2011								
Wayne S. Richardson	11/11/2011								
RECEIVING PARTY DATA									
Name:	Rambus Inc.								
Street Address:	1050 Enterprise Way, Suite 700								
City:	Sunnyvale								
State/Country:	CALIFORNIA								
Postal Code:	94089								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13656498</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13656498				
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Application Number:	13656498								
CORRESPONDENCE DATA									
Fax Number:	6509385200								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	28178-21921 (RA1084.P.US)								
NAME OF SUBMITTER:	Frank Yang								
<p>Total Attachments: 4</p> <p>source=19275_US_prov_executed_Assignment#page1.tif</p> <p>source=19275_US_prov_executed_Assignment#page2.tif</p> <p>source=19275_US_prov_executed_Assignment#page3.tif</p> <p>source=19275_US_prov_executed_Assignment#page4.tif</p>									

CH \$40.00 13656498

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Rambus Inc.**, a Delaware corporation, having a place of business at 1050 Enterprise Way, Suite 700, Sunnyvale, California, 94089, ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- U.S. Provisional Patent Application No. **61/551,717**, entitled "DRIFT DETECTION IN TIMING SIGNAL FORWARDED FROM MEMORY CONTROLLER TO MEMORY DEVICE," filed on October 26, 2011.

2. The entire worldwide right, title, and interest in and to:  
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

Title: DRIFT DETECTION IN TIMING SIGNAL FORWARDED FROM  
MEMORY CONTROLLER TO MEMORY DEVICE  
Filed: October 26, 2011  
Application No.: 61/551,717

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INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

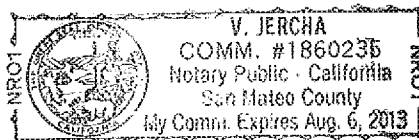
This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature _____	Date of Signature _____
<u>Jun Kim</u> Jun Kim	<u>11/14/11</u>

State of California )  
County of Santa Clara )

On 14 November 2011 before me, V. Jercha, Notary Public, personally appeared Jun Kim, 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 he executed the same in his authorized capacity, and that by his 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: V. Jercha (Seal)

Title: DRIFT DETECTION IN TIMING SIGNAL FORWARDED FROM  
MEMORY CONTROLLER TO MEMORY DEVICE  
Filed: October 26, 2011  
Application No.: 61/551,717

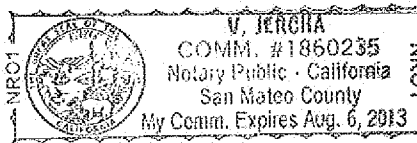
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<u>Name and Signature</u>	<u>Date of Signature</u>
 Pak Shing Chau	11/11/11

State of California )  
County of Santa Clara )

On 11 November 2011 before me, V. Jercha, Notary Public, personally appeared Pak Shing Chau, 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 he executed the same in his authorized capacity, and that by his 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:  (Seal)

Title: DRIFT DETECTION IN TIMING SIGNAL FORWARDED FROM  
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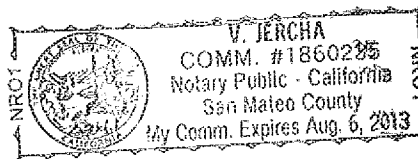
Date of  
Name and Signature \_\_\_\_\_ Signature \_\_\_\_\_  
Wayne S. Richardson 11-Nov-2011

State of California )  
County of Santa Clara )

On 11 November 2011 before me, V. Jercha, Notary Public,  
personally appeared **Wayne S. Richardson**, 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 he executed the same in his authorized capacity, and that by his  
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: V. Jercha (Seal)