

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5703545

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JARED L. ZERBE	05/04/2012
BRIAN S. LEIBOWITZ	05/07/2012
JIHONG REN	06/01/2012
HSUAN-JUNG SU	05/07/2012
JOHN CRONAN EBLE III	05/07/2012
BARRY WILLIAM DALY	05/08/2012
LEI LUO	05/07/2012
TEVA J. STONE	05/14/2012
WAYNE D. DETTLOFF	05/07/2012
JOHN WILSON	05/08/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RAMBUS INC
<b>Street Address:</b>	1050 ENTERPRISE WAY #700
<b>City:</b>	SUNNYVALE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94089
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16242475
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	408-462-8000
<b>Email:</b>	tfriedman@rambus.com
<b>Correspondent Name:</b>	TAMMY FRIEDMAN
<b>Address Line 1:</b>	1050 ENTERPRISE WAY #700
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94089
<b>ATTORNEY DOCKET NUMBER:</b>	RA948.C1C1C1.US

<b>NAME OF SUBMITTER:</b>	TAMMY FRIEDMAN
<b>SIGNATURE:</b>	/TAMMY FRIEDMAN/
<b>DATE SIGNED:</b>	09/05/2019
<b>Total Attachments: 12</b> source=RA948.Prov2.US Assignment#page1.tif source=RA948.Prov2.US Assignment#page2.tif source=RA948.Prov2.US Assignment#page3.tif source=RA948.Prov2.US Assignment#page4.tif source=RA948.Prov2.US Assignment#page5.tif source=RA948.Prov2.US Assignment#page6.tif source=RA948.Prov2.US Assignment#page7.tif source=RA948.Prov2.US Assignment#page8.tif source=RA948.Prov2.US Assignment#page9.tif source=RA948.Prov2.US Assignment#page10.tif source=RA948.Prov2.US Assignment#page11.tif source=RA948.Prov2.US Assignment#page12.tif	

## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and pursuant to an obligation to Rambus Inc. and/or its affiliates to assign intellectual property, and pursuant to any other applicable agreements among Rambus Inc. and its affiliates, the person(s)

Jared L. Zerbe, Woodside, CA, c/o Rambus Inc., 1050 Enterprise Way, Suite 700, Sunnyvale, CA 94089

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Wayne D. Dettloff, Cary, NC, c/o Rambus Inc., 1050 Enterprise Way, Suite 700, Sunnyvale, CA 94089

(hereinafter referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and/or does hereby sell, assign, and transfer to **Rambus Inc.** having a place of business at **1050 Enterprise Way, Suite 700, Sunnyvale, CA 94089 United States**, having ("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** entitled "**METHOD AND APPARATUS FOR SOURCE-SYNCHRONOUS SIGNALING**", having:

  X   United States Patent Application No. **61/615,691**, filed on **26 March 2012**;  
\_\_\_\_\_ which claims priority to U.S. Patent Application No. \_\_\_\_\_ filed on \_\_\_\_\_; or  
\_\_\_\_\_ Application number ( \_\_\_\_\_ ), filed ( \_\_\_\_\_ ),  
inserted by ( \_\_\_\_\_ ) on ( \_\_\_\_\_ ) [Where  
INVENTOR hereby authorizes and requests ASSIGNEE or its agents to insert here  
in each parentheses the application number and filing date when known, along  
with the signature and date of the person completing this section].

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, utility model, design, divisional, continuation, continued prosecution, continuation-in-part, substitute, renewal, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world related to the SUBJECT MATTER; (d) all patents (including reissues, re-examinations, and extensions) 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.

As part of this Assignment, INVENTOR further agrees to do the following, when requested, and without further consideration: (1) execute all oaths, declarations, 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.

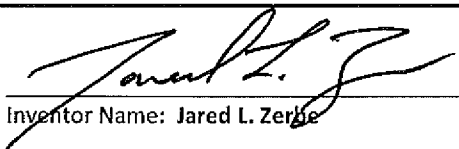
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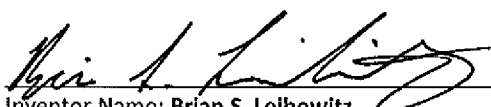
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Each Inventor: Please Sign and Date Below:

	<u>5/4/12</u>
Inventor Name: Jared L. Zerk	Date

	<u>5/7/2012</u>
Inventor Name: Brian S. Leibowitz	Date

_____ Inventor Name: Hsuan-Jung Su	_____ Date
---------------------------------------	---------------

Inventor Name: **John Cronan Eble III**

Date

Inventor Name: **Barry William Daly**

Date

Inventor Name: **Lei Luo**

Date

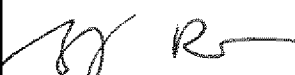
Inventor Name: **Teva J. Stone**

Date

Inventor Name: **John Wilson**

Date

5

	June 1st, 2012
Inventor Name: Jihong Ren	Date

Inventor Name: Wayne D. Dettloff	Date
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       Application number (        ), filed (        ),  
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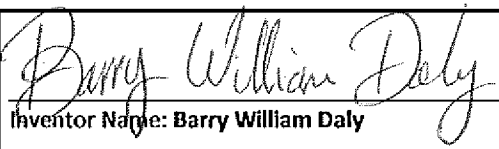
<hr/>	
Inventor Name: Jared L. Zerbe	Date
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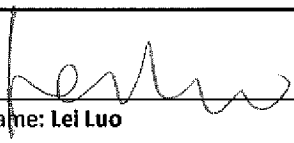
<hr/>	
Inventor Name: Brian S. Leibowitz	Date
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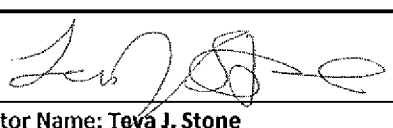
	
Inventor Name: Hsuan-Jung Su	Date 5-7-2012
<hr/>	



	<u>5/7/2012</u>
Inventor Name: John Cronan Eble III	Date

	<u>5/8/2012</u>
Inventor Name: Barry William Daly	Date


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	<u>5/14/2012</u>
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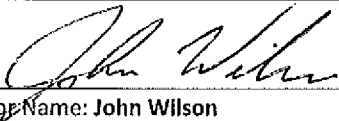
Date

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