

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
QUALCOMM ATHEROS, INC.	10/22/2012
RECEIVING PARTY DATA	
Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13115700
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	112369
NAME OF SUBMITTER:	JACKIE BLACKWELL
Signature:	/Jackie Blackwell/
Date:	12/31/2013

OP \$40.00 13115700

**Total Attachments: 34**

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## PATENT ASSIGNMENT

WHEREAS, Qualcomm Atheros, Inc., a Delaware corporation, having a place of business located at 1700 Technology Drive, San Jose, CA 95110 (hereinafter "ASSIGNOR"), hereby represents and warrants that it is the sole and exclusive owner of the entire right, title, and interest in, to and under the Patent Items (as defined below).

WHEREAS, QUALCOMM Incorporated, a Delaware corporation (hereinafter "ASSIGNEE"), has agreed to acquire ASSIGNOR's entire right, title and interest in, to and under (i) the patents and patent applications identified in the schedule attached hereto (hereinafter "SCHEDULE A"), and all provisional applications relating thereto; (ii) all patents issuing on any patent applications identified in SCHEDULE A; (iii) all reissues, reexaminations, extensions, divisionals, renewals, continuations, continuations-in-part and counterparts (whether foreign or domestic) claiming priority to or based on any of the foregoing items in (i) or (ii) above, along with all patents issuing therefrom; and (iv) all inventions and improvements claimed or described in any of the foregoing items (i), (ii) or (iii) (subsections (i), (ii), (iii) and (iv) hereinafter collectively referred to as the "Patent Items").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR and ASSIGNEE agree as follows:

1. ASSIGNOR does acknowledge that ASSIGNOR has sold, assigned, transferred, conveyed, and delivered, and by these presents does hereby sell, assign, transfer, convey and deliver unto ASSIGNEE, its successors, legal representatives and assigns, ASSIGNOR's entire right, title and interest throughout the world in, to and under the Patent Items, including without limitation all foreign patents and any rights of priority based on or relating to the Patent Items.
2. ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States of America, and any Official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications, to issue all patents for the Patent Items to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this Patent Assignment.
3. ASSIGNOR does acknowledge that ASSIGNOR has sold, assigned, transferred, conveyed, and delivered, and by these presents does hereby sell, assigns, transfers, conveys and delivers to ASSIGNEE, its successors, legal representatives and assigns, ASSIGNOR's entire rights of enforcement, all of ASSIGNOR's claims for damages and remedies arising out of, relating to or resulting from the Patent Items or any violation(s) thereof, whether accrued prior to the date of this Patent Assignment or hereafter, including but not limited to the right to sue for, seek, collect, recover and retain damages and any other relief arising out of or resulting from any past, present or future infringement or violation of any of the Patent Items, and all other rights, including common law rights, that ASSIGNOR may have relating to the Patent Items, including but not limited to any ongoing or prospective royalties to which ASSIGNOR may be entitled, or that ASSIGNOR may collect for any infringements of any of the Patent Items or from any settlement or agreement related to the Patent Items arising

before or after the date of this Patent Agreement, such rights to be held and enjoyed by ASSIGNEE, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this Patent Assignment had not been made.

4. ASSIGNOR hereby represents and warrants that ASSIGNOR has full right, power and authority to sell, assign, transfer, convey and deliver all of the subject matter set forth herein, and hereby covenants and agrees that ASSIGNOR will communicate promptly to ASSIGNEE, its successors, legal representatives and assigns, all facts known to ASSIGNOR respecting the Patent Items, and will testify in any legal proceeding, sign all lawful papers, transfer all file histories, make diligent effort to find or reach every inventor of the Patent Items required in connection with preparation of any lawful document or proceeding relating to the Patent Items, make reasonable efforts to obtain all required signed and executed documents relating to the Patent Items from every inventor named in the Patent Items, make all rightful declarations and/or oaths and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce patent protection for the Patent Items on a worldwide basis in all countries. ASSIGNOR further covenants and agrees that ASSIGNOR will wholly refrain from challenging the validity, enforceability or scope of the Patent Items, whether through opposition, reexamination and/or court proceedings.

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IN WITNESS WHEREOF, I herunto set my hand this 22<sup>nd</sup> day of October, 2012.

Qualcomm Atheros, Inc.

By: [Signature]

Adam Tachner  
Secretary, Vice President and General Counsel

State of California )  
County of Santa Clara ) ss.

On October 22, 2012, before me, Vicky K. Saucedo, Notary Public  
*Date* *Name of Notary Public*  
personally appeared Adam H. Tachner  
*Name of Signer*

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/she executed the same in his/her authorized capacity, and that by his/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.

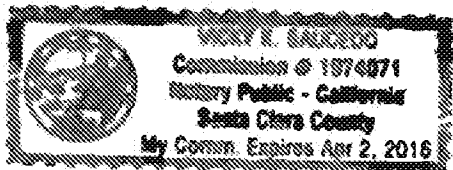
WITNESS my hand and official seal.

IN WITNESS WHEREOF, acknowledged and accepted on this 22 day of October, 2012.

QUALCOMM Incorporated

By: [Signature]

Timothy F. Loomis  
V.P., Patent Counsel



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

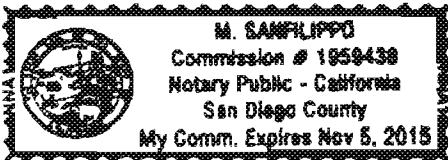
State of California

County of SAN DIEGO

On October 24, 2012 before me, M. SANFILIPPO, NOTARY PUBLIC

personally appeared TIMOTHY F. LCCMIS

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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: M. Sanfilippo

Place Notary Seal Above

OPTIONAL

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Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_

Individual

Partner —  Limited  General

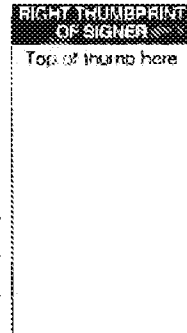
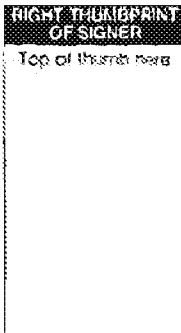
Attorney in Fact

Trustee

Guardian or Conservator

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



SCHEDULE A

Patent Reference	Jurisdiction	Filed Date	Application Number	Grant Date	Patent Number
112131AU	Australia	12-Oct-2000	2000078253	15-Jul-2004	2000078253
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112304	United States of America	28-May-2009	12,473,456	4-Sep-2012	8,258,648
112307	United States of America	12-Nov-2008	12,817,032		
112308	United States of America	23-Dec-2008	12,645,574		
112309	United States of America	15-Jan-2010	12,688,357		
112310	United States of America	17-Mar-1997	08,818,457	7-Jul-1998	5,777,544
112311	United States of America	23-Sep-2003	10,669,097	5-May-2009	7,529,372
112312	United States of America	30-Dec-2008	12,348,043	9-Oct-2012	8,286,048
112313	United States of America	20-Sep-2010	12,888,117		
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112316	United States of America	13-May-2010	12,779,209		
112317	United States of America	26-Aug-2010	12,669,521		
112318	United States of America	14-Feb-2011	13,026,580		
112319	United States of America	3-Dec-2010	12,959,914		
112321	United States of America	30-Aug-2010	12,870,927		
112322	United States of America	23-Dec-2008	12,645,581		
112323	United States of America	1-Apr-2010	12,752,508		
112327	United States of America	5-Jan-2011	12,985,201		
112328	United States of America	5-Nov-2010	12,940,623		
112329	United States of America	7-Sep-2010	12,876,453		
112330	United States of America	7-Jan-2011	12,987,059		
112331	United States of America	30-Nov-2010	12,956,568		
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112351	United States of America	26-Aug-2010	12,869,563		
112352	United States of America	3-Aug-2010	12,848,180		
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112354	United States of America	17-Sep-2010	12,885,077		
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120041	United States of America	28-Dec-2011	13/338,384		
120074	United States of America	27-Jun-2012	13/834,837		
120093	United States of America	13-Jun-2012	13/495,883		
120133	United States of America	10-Oct-2011	13/268,823		
120175	United States of America	13-Oct-2011	13/272,872		
120178	United States of America	15-May-2012	13/472,342		
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120236	United States of America	20-Oct-2011	13/278,040		
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