

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Bing Shao</td> <td>04/19/2013</td> </tr> <tr> <td>Ye Chen</td> <td>04/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	Bing Shao	04/19/2013	Ye Chen	04/19/2013
Name	Execution Date						
Bing Shao	04/19/2013						
Ye Chen	04/19/2013						
RECEIVING PARTY DATA							
Name:	Avago Technologies General IP (Singapore) Pte. Ltd.						
Street Address:	No. 1 Yishun Avenue 7						
City:	Singapore						
State/Country:	SINGAPORE						
Postal Code:	768923						
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>13866765</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13866765		
Property Type	Number						
Application Number:	13866765						
CORRESPONDENCE DATA							
Fax Number:	7708040900						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	2012-129USORG (0732U1)						
NAME OF SUBMITTER:	Daniel J. Santos						
Signature:	/Daniel J. Santos/						
Date:	04/25/2013						
Total Attachments: 2 source=Declaration_Assignment_Signed#page1.tif source=Declaration_Assignment_Signed#page2.tif							

CH \$40.00 13866765

DECLARATION

As a below named inventor, I hereby declare that:

The application identified below was made or authorized to be made by me.

I believe that I am the original inventor or original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

A BIDIRECTIONAL PARALLEL OPTICAL TRANSCEIVER MODULE AND A METHOD FOR BIDIRECTIONALLY ...

the specification of which is attached hereto unless the following box is checked:

was filed on _____ as US Application Serial No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both.

Send Correspondence to:

Customer Number **57299**

AVAGO TECHNOLOGIES, LTD.
4380 Ziegler Road
Fort Collins, CO 80525

Direct Telephone Calls to:

Daniel J. Santos (770) 709-0013

OR Floyd Anderson
(970) 288-0760

ASSIGNMENT OF PATENT APPLICATION

I/We the undersigned (each) have agreed and hereby agree to assign to Avago Technologies General IP (Singapore) Pte. Ltd. (Company Registration No. 200512430D), a company incorporated under the laws of Singapore whose registered office is at No. 1 Yishun Avenue 7, Singapore 768923 (hereinafter AVAGO), in furtherance of my/our obligations to AVAGO, and do hereby assign and transfer to AVAGO, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent of the United States and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for Patent, and any and all Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patents.

I/We additionally authorize AVAGO to file applications in my/our name for Patent in any country, to be held and enjoyed by AVAGO, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to AVAGO, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to AVAGO, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patents, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid AVAGO, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by AVAGO;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents, inventor's certificates, utility certificates, utility models, or certificates of addition on applications as aforesaid, to issue to AVAGO, as assignee of the entire right, title and interest, any and all Patents for said invention(s) or improvement(s), including any and all Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct AVAGO attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s):

Full Name of Sole or First Inventor:

Given Name	Middle Name	Family Name
Bing		Shao

Residence: 937 Lantana Drive, Sunnyvale, CA 94086
Correspondence: 4380 Ziegler Road Fort Collins, CO 80525

Shao Bing _____ Date: 04-19-2013

Full Name of # 2 Joint Inventor:

Given Name	Middle Name	Family Name
Ye		Chen

Residence: 6979 Claywood Way, San Jose, CA 95120
Correspondence: 4380 Ziegler Road Fort Collins, CO 80525

Ye Chen _____ Date: 4/19/2013

Full Name of # 3 Joint Inventor:

Given Name	Middle Name	Family Name

Residence: _____
Correspondence: _____

Inventor's Signature _____ Date _____

Full Name of # 4 Joint Inventor:

Given Name	Middle Name	Family Name

Residence: _____
Correspondence: _____

Inventor's Signature _____ Date _____

Full Name of # 5 Joint Inventor:

Given Name	Middle Name	Family Name

Residence: _____
Correspondence: _____

Inventor's Signature _____ Date _____