## UNH IOL PCIe Consortium PCIe Gen 3 CEM Receiver Testing

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InterOperability Lab — 121 T	echnology Drive, Suite 2 —	Durham, NH 03824 –	<b>- (603) 862-0701</b>
			January 24, 2014
			January 24, 2014
Mr. Vendor	,	$\wedge$	
Company Name Address			\
Tradicus			
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Mr. Vendor:			
Enclosed are the results fr	om the PCN Gen 3 CEMRec	eiver testing performed	op the:
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
20140106	UNHID Company QUT PCIe	Can 2 Divisario (AIC)	
20140106	CIVHILI Company RUI PCIE	Gen 3 Pratform/AIC	
			$\checkmark$
The testing was performed Physical Layer Test Method of	ed according to Version 0.91	of the PCI Sig, PCI I	Express 3.0 CEM RX
BERT, which is available online at	implementation for Agilent :	3-BEK1 N4903B Hig.	n Performance Serial
BERT, Willen is dyamasic simile at	.      ,		
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
http://www.pcish.com/n	nembers/downloads/specification	s/Asilent PCle 3.0 8G	RX MOI v0 91.pdf
		$\rightarrow$	
Note that the tests defined	in this test suite are based on	:	
PCI Exprèss Bas	e Specification Revision 3.0, v d Electromechanical Specifica	version 1.0	sion 0 0
	chitecture PHY Vest Specifica		
	<b>\</b>		
Please feel free to contact	me at beaudet@iol.unh.edu	if you have any questi	ons regarding the test
suite, or the results contained in thi	s report		
		Sincer	ely,
		Oad ( 10	1
		Joshua E. Be	andel

Joshua Beaudet

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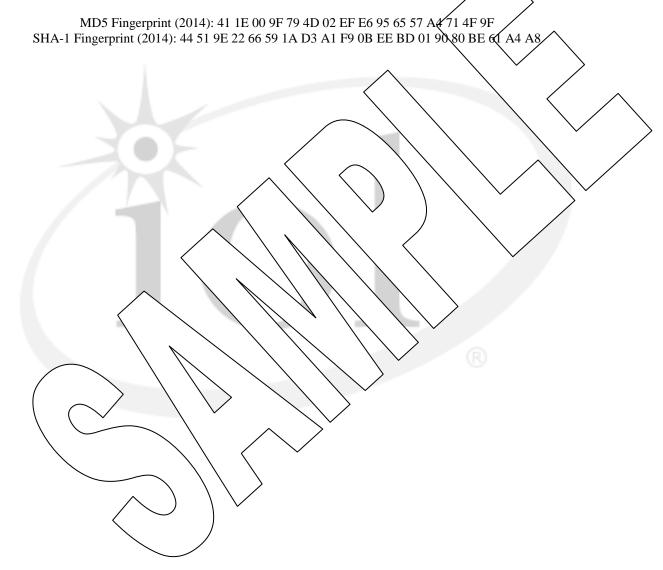


Table 1: Test Equipment and DUT Conf	iguration/Feature Information
DUT Details	
Manufacturer	
Model	
Device Type (Platform/AIC)	
Mfr. Serial Number	
BIOS Version	
Hardware Version	
Software Version	
UNH-IOL ID Number	
Processor Details (If applicable)	
Spec	
Lot Information	
Manufacture Location	\ \ \ \ \ \ \
Lot Numbers	
Dot I valleers	
Test System Hardware	
Real-time DSO (for Calibration)	Agilent Infiniium DSO9\30\4A, 13GNz, 40GS/s Real time
Treat time BBO (for Campration)	DSO DSO TRANSPORTED TO THE PROPERTY OF THE PRO
Bit Error Tester/ Pattern Generator	Agilen V-BERT A4903B, 12.5Gb/s, High Performance Serial
Div Biror 1 biror, 1 million Statemen	BERT
De-Emphasis Box	Agilen N4916B De Emphasis Signal Converter
Clock Multiplier	Agilent N4880A Reference Clock Multiplier
Repeater	National Semiconductor/TI D880PCIEVK REV.1
Test Fixture	PCI Sig RCIe x16 Compliance Load Board
Additional Comments/Notes	
The testing was performed without the Rep	eater as it was not needed.
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**Figure 1: Test Setup** 

Note: The Reference Clock Multiplier is not pictured. That box takes the clock from the CLB and puts out a reference clock that feeds the clock in on the Error Detector of the J-BERT.

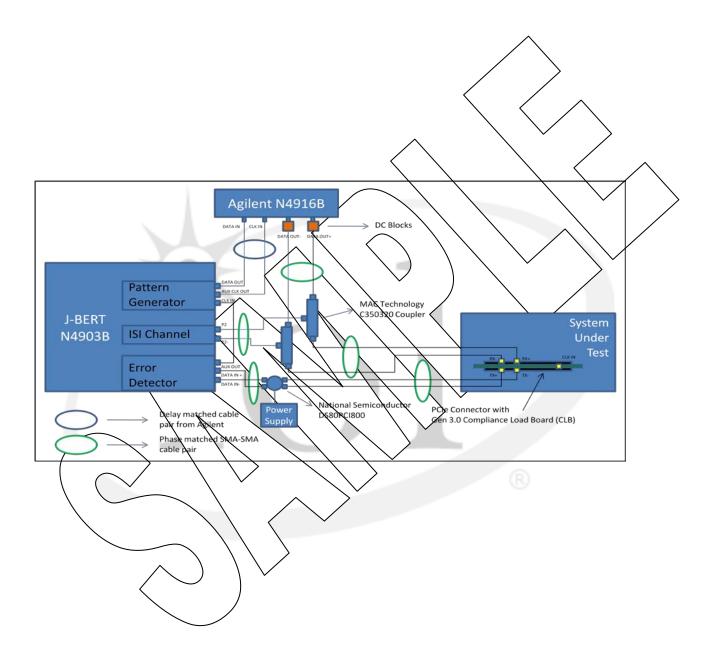


Table 2: Test Results

Slot	Lane	Errors	Bit Count	BER	Result
1	0	0	3.01681692E12	0	Pass
1	7	0	3.01649533E12	0	Pass
1	15	0	3.01631390E12	0	Pass
2	0	0	3.01679100E12	0	Pass
2	7	0	3.01725552E12	0	Pass
2	15	0	3.01705414E12	0	Pass /
3	0	0	3.01382083E12	0 <	Pass
3	7	0	3.01422731E12	0	Pass
3	15	0	3.01409973E12	0	Pass
4	0	0	3.01335704E12	<u> </u>	Pass
4	7	0	3.01332195E12	0	Pass
4	15	0	3.01333870E12	/ Ø	Pass
5	0	0	3.01644679 <del>E12</del>	0	Pass
5	7	0	3.01644679E12	10	Pass
5	15	0	3.01421346E12	18	Pass
6	0	0	3.0\372464E12	(0)	<b>Pass</b>
6	7	2	3,01357117EN2	6.6366E-13	Rass
6	15	0 /	3.0\369\93E12	0	Pass
7	0	0	3.01103704E12	0)	<b>Pass</b>
7	7	<b>∕</b> ·Q	3.Q1402182E12	Ø	Rass
7	15	0	3.01409973E12	(0	Pass /
8	0	0	3.01304817E12	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pass
8	7	0	3.01,3049,18E12	, 0	Pass
8	<b>\1</b> 5	4	3.0130472712	1.3276E-6	Fail