

September 2010

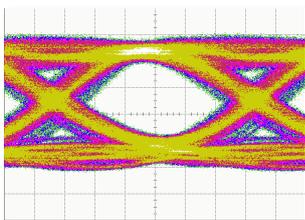
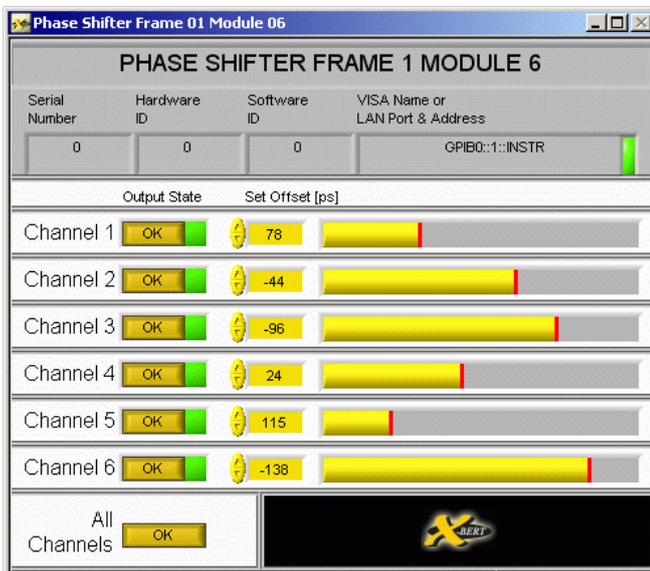


36th European Conference and Exhibition
on Optical Communication

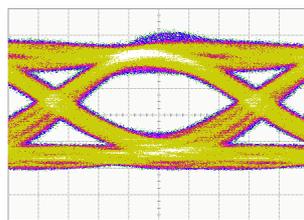
Conference 19-23 September 2010
Exhibition 20-22 September 2010

BOOTH 124

Multichannel crosstalk Running demo at ECOC



Crosstalk on Slope
Opening high but narrow



Crosstalk in mid of eye
Opening wide but low



Welcome back
after the
summer

In September most people get more busy again.

The COIE in Shenzhen / China in the first week of September again was an interesting start after summer. Beside the wide spread ramp up of 10G single channel capacities we saw a lot of activities for parallel applications such as QSFP and CFP as well.

We expect even more such requests from ECOC visitors.

From our previous life as transceiver developers we know about the importance of identifying crosstalk effects in optical transmission devices.

Therefore we made joint evaluation with the marketleader of Active Optical Cables regarding channel to channel skew impact on crosstalk.

Details will be published in the technical press shortly.

Today we can introduce first results during the ECOC show.

Stephan Mannshardt, CEO

VISIT US ON
BOOTH
124 AT ECOC !

September 2010

Who is talking ?

Depending on the skew position of the aggressor channels the victim channel has crosstalk on the slope, in the mid of the eye or somewhere in between. The pictures above show crosstalk effects on an optical transmitter signal.

Similar effects do happen in the receiver. Due to the characteristic of the receiver the decrease of sensitivity will be more or less visible with respect to the channel to channel skew in the receiver and also based on an eventually also distorted input signal.

Why is crosstalk testing so important ?

A transceiver or cable manufacturer has to measure the sensitivity at worst case conditions. Otherwise it may happen that the product fails at his customer's application. Have you ever had the case where the end customer rejects many already shipped parts ? It is not fun at all.

Therefore to be on the safe side one should be able to measure the worst case crosstalk.

How to solve ?

Luceo's Phase shifter as part of the ParalleX[®] system can adjust the phase of each channel in the parallel system in a range of ± 200 ps and keeps it stable. There is no limit on the channel count due to the scalability.

So any device under test can be measured at worst case conditions.



On ECOC you will find us here:



An extra reason for stopping by at the Berlin Pavilion will be found on Tuesday at 4:00 pm.

ParalleX is registered trademark of LUCEO Technologies GmbH

About the company

LUCEO Technologies GmbH was created by engineers involved in optical transceiver design, who recognized critical gaps in test and measurement equipment for optical component and transceiver characterisation. Luceo's test system is the first to combine a complete BERT test solution, with affordable cost and German build quality. Targeted at high volume production test applications, Luceo's equipment optimizes speed and ease-of-use, allowing users to achieve minimum cost-per-test. Founded in 2005, Luceo is headquartered in Berlin, Germany, with a global sales net. For more information, visit www.luceotec.com