

# POF Gbit Ethernet Throughput Measurement using Media Converter Board and Spirent



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IEEE 802.3 GEPOF Study Group – July 2014 Plenary

### **Objective:**

Investigation of packet loss/BER behavior as a function of Rx-optical power level using 1G-MC boards and Spirent











Throughput Measurement Setup

# 100% Throughput = 0% Frame loss @ 100% payload



Raw data = 1111, Constant

## Throughput – Measurement Results over Temperature

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Throughput @ Rx input pwr = -16,5 dBm

100% throughput (no bit errors) for Rx-input power of -16,5dBm observed over temperature



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= SMA Connector



Tx LOP is reduces by -3,0dB when temperature is at 85 degC. Therefore OPB is reduced by -3,0 dB

