

CAUI-4 BER target

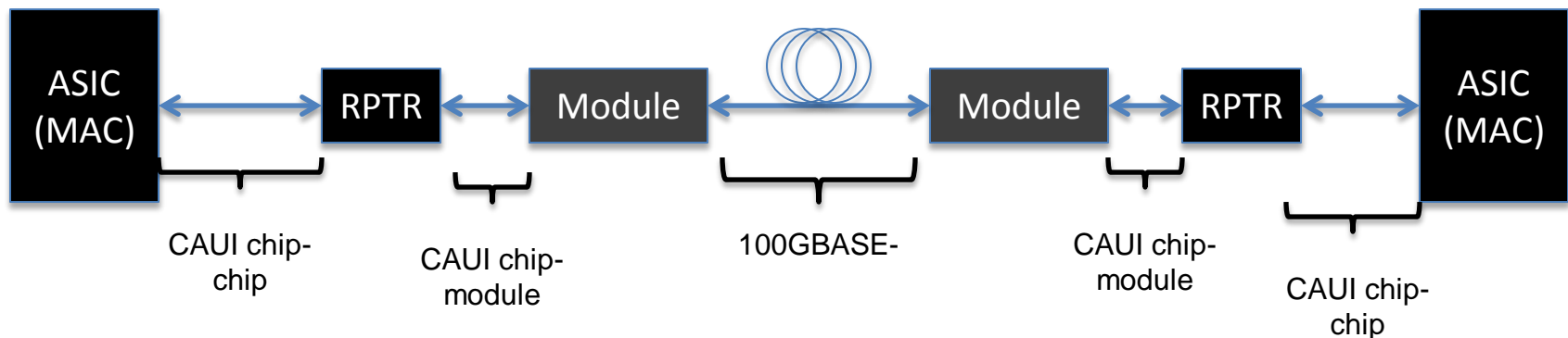
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Supporters

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- Wheling Cheng Juniper
- Peter Anslow Ciena
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- Mark Gustlin Xilinx
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- David Lewis JDSU
- Scott Irwin Mosys
- Mike Li Altera
- Matt Brown Applied Micro
- Jeffery Maki Juniper

CAUI-4 Application

- 40/100GbE requires BER better than $1E-12$ at MAC/PLS service interface (see 802.3ba 80.1.2 Objectives)
- Potential to have 4 CAUI links in a typical implementation
- CAUI link therefore needs to support a BER better than $1E-12$
 - Set target to $1E-15$ so that end to end implementations can support better than $1E-12$ without impacting the PMD budget



Recommendation

- Adopt a BER target of better than $1E-15$ for CAUI-4 chip-module and CAUI chip-chip
 - Use $1E-15$ target for eye opening, interference tolerance and COM values. Set stressed Rx test to be compatible with $1E-15$ BER without onerous test time.

