XGP

MSA (Multi-Source Agreement) Group

Overview and Status Report

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Who is the XGP MSA Group?

• Group of 14 participating transceiver companies in the process of establishing a charter with a goal to develop an MSA document for 10Gbps optical transceivers

• Many of our participants from the SFP (Small Form-factor Pluggable) MSA group

• Develop a common transceiver package footprint to support the 10Gbps communications market

• Deliver footprint and functional specs to the industry in a timely manner

• Utilize ongoing industry feedback and liaison mechanisms through strong links to marketing and standards bodies
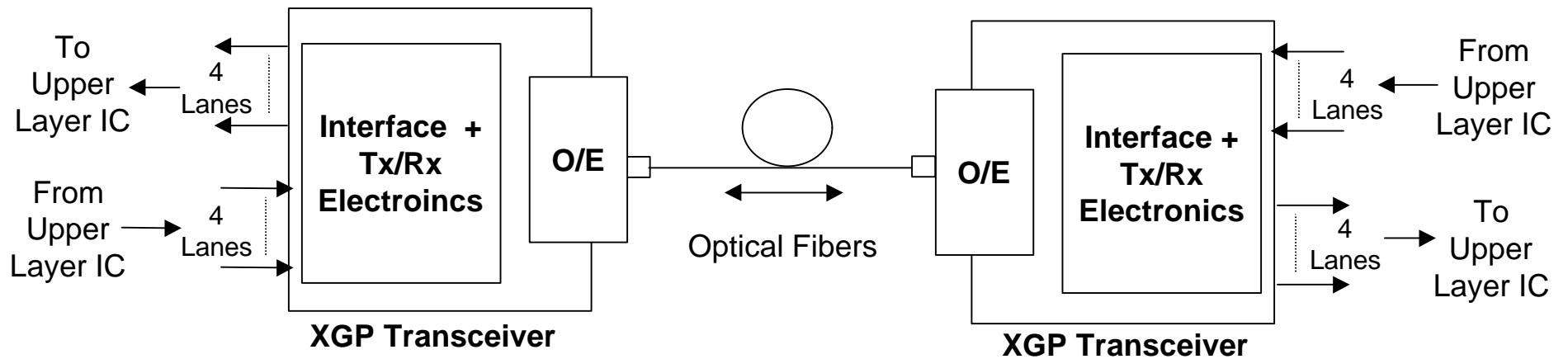
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Objectives

- Target P802.3ae requirements as well as other 10Gbps standards, such as 10Gig Fibre Channel

- Support 4-Lane electrical interface

- Pluggable electrical interface based on SFP connector design (hot pluggable desired)

- Leverage SFP mechanical design

- Support multiple fiber and electrical media connectors

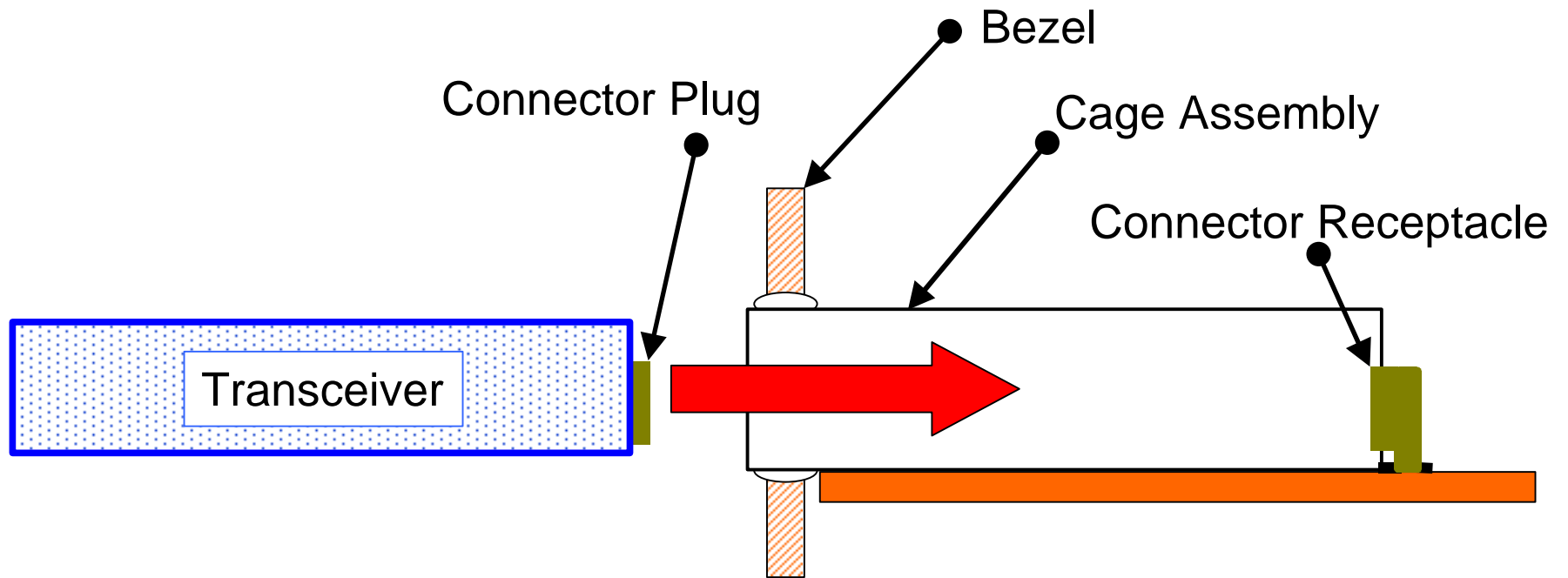- Mechanical form factor to support high density, EMI considerations, and thermal dissipation

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Example Block Diagram

To
Upper
Layer IC

4
Lanes

From
Upper
Layer IC

4
Lanes

**Interface +
Tx/Rx
Electroincs**

O/E

XGP Transceiver

Optical Fibers

O/E

**Interface +
Tx/Rx
Electronics**

XGP Transceiver

4
Lanes

From
Upper
Layer IC

4
Lanes

To
Upper
Layer IC

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XGP Attachment Approach

Bezel

Connector Plug

Cage Assembly

Connector Receptacle

Transceiver

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Status

- Ad hoc status

- Current focus on IP and operating procedures

- Multi-phase product definition process

    - Electrical connector requirements and definition

    - Form factor definition and thermal provisions

    - Guide rail/cage system

    - Optical connector and PMD variants

- Process strategy

    - Achieve maximum consensus with minimum # of variants

    - Timely development process

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Status -Continued-

- Preliminary technical requirements being developed

- Electrical connector design approach established

    - Current "place holder" is a 50 pin Z-axis hot pluggable

- Pin assignments under development

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Next Steps

- IP, operating procedures, & membership guidelines resolution

- Baseline proposal presentations at next meeting

- Pinout definition & refinement

- Face-to-face meetings every 2 months, Bi-weekly conference calls

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