



OCP – ODSA Project

Commercialization Use Case

eTopus Inc.

ODSA BOW project for Chiplets

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Why ODSA at eTopus

- 1. eTopus was requested to develop a BOW solution by existing SERDES client
 - eTopus is a leader in SERDES IP – 1-112G @ 16nm, 7/6nm fully validated
 - Millions of units shipped into Tier 1 accounts
- a. We developed the solution based on customer demand & applicability of BOW PHY to chiplets which is an emerging target market
- **First** customer can not share specific details as we are under NDA
- Second engagement with FPGA company – Quicklogic to use BOW PHY
- b. eTopus involvement with ODSA?
 - Since 2021
 - More Active in 2022 meetings and calls
 - Standardization & ODSA is **key enabler** for chiplets beyond closed internal teams

What is Next for ODSA at eTopus

- Supporting multiple processes with BOW PHY support
- 22nm -> 7/6nm -> 5/4nm.....
- Supporting I/O chiplets to simply attach directly to SOC / FPGA
- Our focus is leveraging common interfaces across BOW/UCle
- Leveraging I/O chiplets for standard interfaces:
 - 800G ethernet across 64 lanes @16G/link
 - 1.6T ethernet across 64 lanes at @32G/link
 - PCIe Gen 6/CXL3 across 32/64 lanes (various link speeds)
 - JESDD upcoming PAM4 across @8/16G/link
 - USB 4v2 (PAM3) upcoming USB 4 across @ 8/16G links





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Questions