



Accelerator PCIe Card with Ayar Labs' Optical I/O Chiplets

Ayar Labs' in-package optical I/O solution is integrated with an industry-leading accelerator PCIe card. The accelerator card consists of two TeraPHY™ optical I/O chiplets that are each capable of 4 Tbps of bi-directional bandwidth. It offers 5x current industry bandwidth at 5x lower power and 20x lower latency. These chiplets are co-packaged with the XPU. The optical communication is powered by two SuperNova™ light sources, each supporting 64 optical channels of high-speed and error-free communication across eight fibers in each chiplet.

The innovative accelerator card is the latest milestone in Ayar Labs' long-term roadmap of breakthrough performance, supporting industry standard UCle and CXL connections.

Visit Ayar Labs' booth (#1511) to see a live demonstration and learn more.