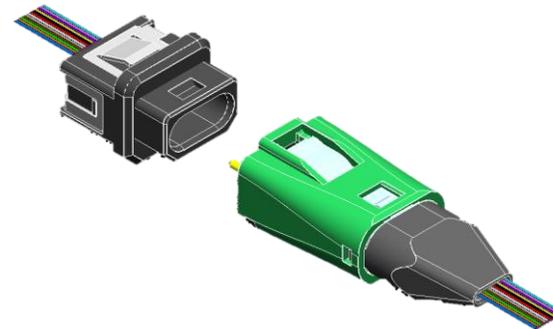
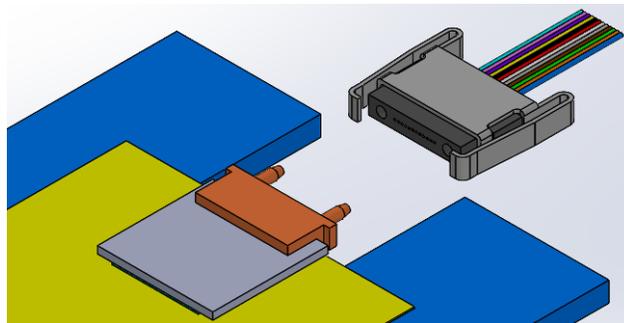


# ***Fiber Optics Connector proposal for the Co-Packaged Optics***

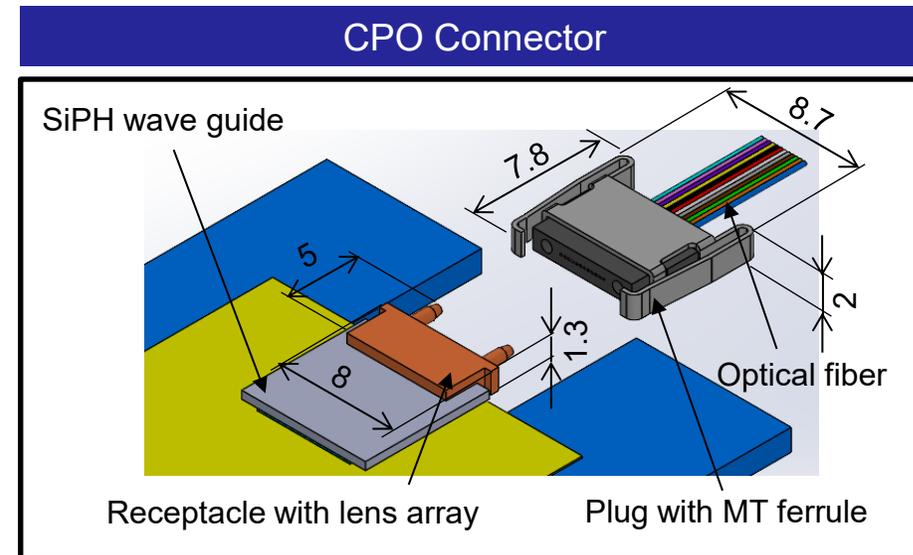
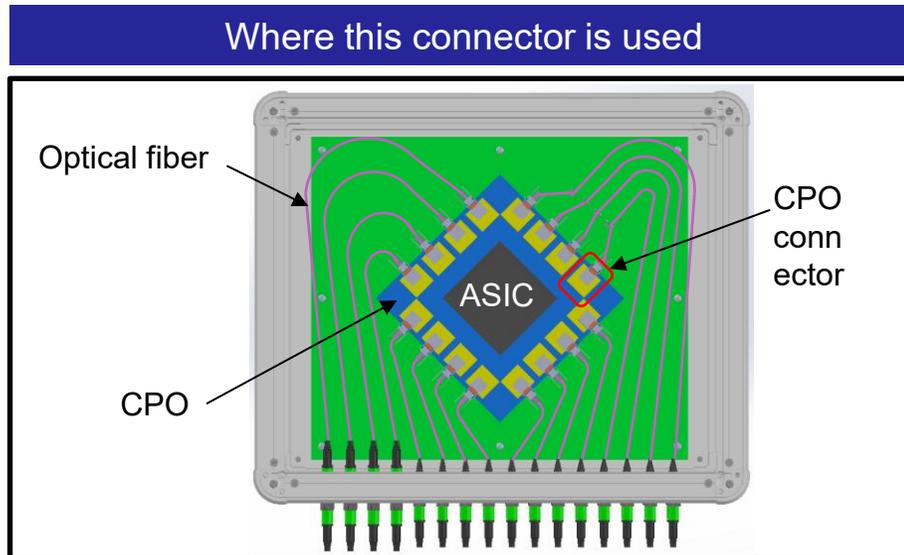
*Two Proposals to Simplify CPO Assembly*



January 2026

**To achieve a connector with an excellent balance of cost and optical characteristics, a resin molding process integrating the lens and receptacle is adopted.**

*Features: The integrated resin manufacturing enables lower cost compared to glass-based V-groove arrays or lenses. Horizontal connection minimizes wavelength/polarization dependence, enabling a compact, low-profile design. Standard MT ferrules can be used on the plug side.*

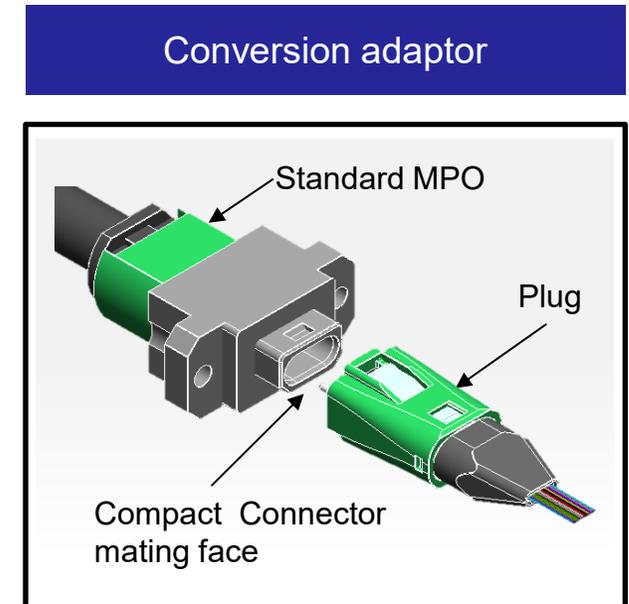
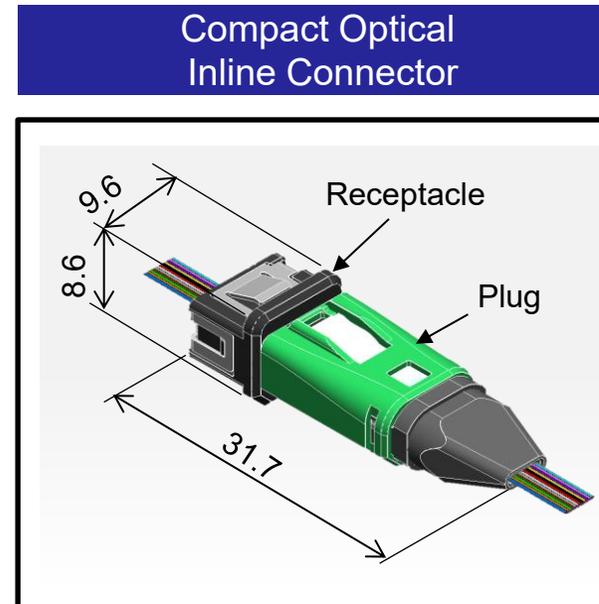
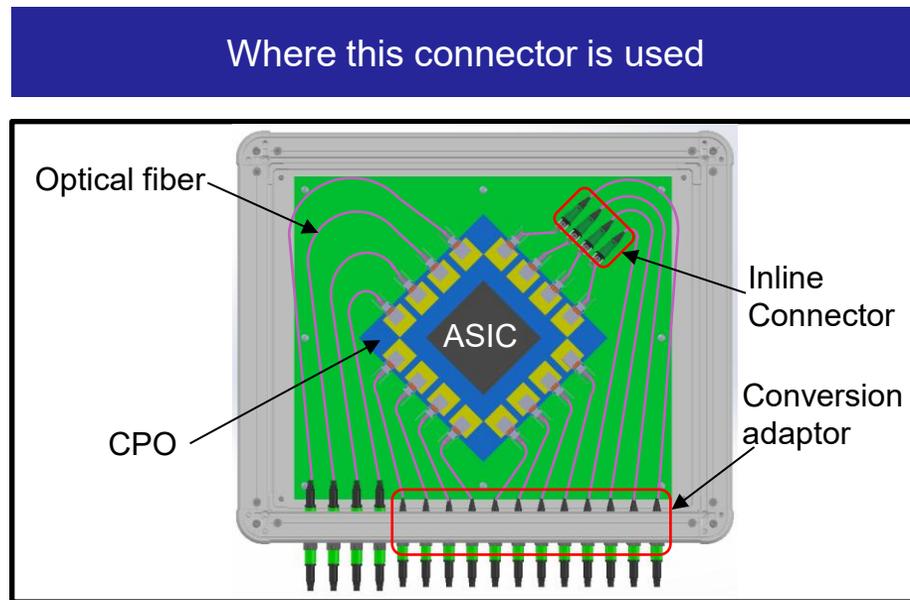


*After installing the main board into the chassis, the optical fiber can be connected. This avoids exposing the fiber to reflow heat and simplifies fiber handling.*

## 2. Compact Optical Inline Connector

*The compact optical inline connector that improves fiber routing issues encountered during CPO substrate assembly. Compact design to minimize impact on equipment cooling efficiency.*

*Features: The two-piece plug-receptacle structure enabling a compact design.  
Receptacles are available with mounting brackets for PCB mounting or panel mounting.  
The conversion adaptor for MPO connectors is also under development.*



*The optical fiber connecting the CPO and the interface can be split. This makes optical fiber wiring easier.*