

# GlassBridge™ Fiber-to-PIC Connector

## Industry-leading design for next-generation optics

Built on Corning’s decades of expertise in glass science, ion-exchange (IOX) waveguides, and industry-proven TMT-ferrule technology, the GlassBridge™ connector gives system designers a practical, manufacturable path to next-generation optical architectures including Near-Packaged Optics (NPO), Co-Packaged Optics (CPO), and high-density photonic modules.

### Advanced Optical Coupling

- Wafer-based high-volume manufacturing
- Customizable pitch
- Detachable solution
- Passive alignment

### Inside the GlassBridge Design – Core Product Features



#### Wafer-based IOX waveguides

enabling high-volume, scalable production, and precision alignment.



#### Supports 24 fibers

and can scale to multiple (eg. 2 x 24) per PIC for higher density needs.



#### Robust physical-contact interface

leveraging a standard TMT ferrule format.



#### Fiber-to-chip coupling

using an ultra-compact, 6.4 mm-wide glass connector body.



#### Solder reflow compatible

to ease assembly.



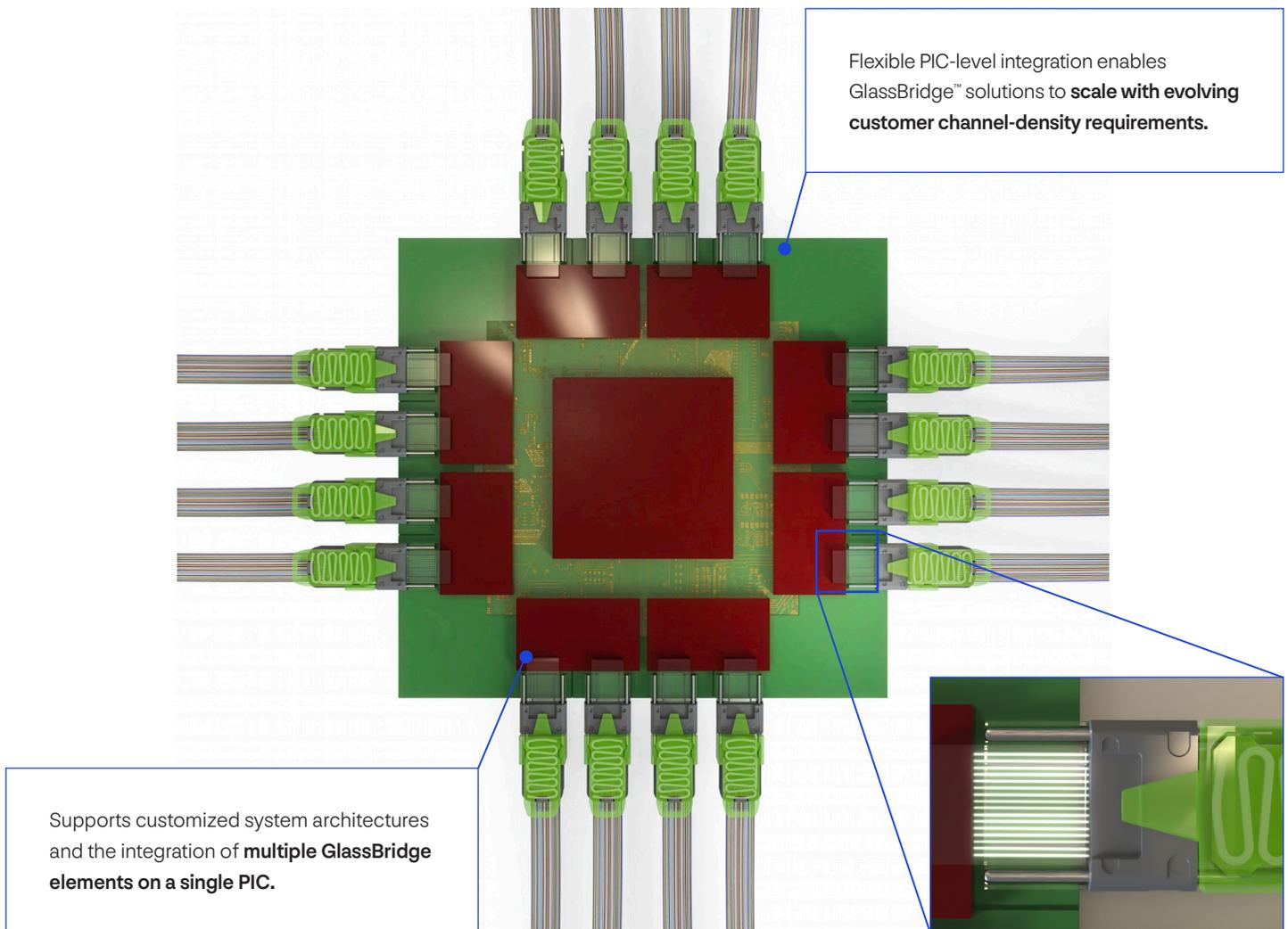
#### Low loss optical performance

demonstrating 1.5 dB O-band fiber-to-PIC coupling.

## System-Level Advantages – Unlocking Next-Gen Photonic Performance

- **Scalable Manufacturing:** Wafer-based design supports high-volume manufacturing.
- **Customizable Pitch:** Supports multiple PIC pitches (e.g., 40  $\mu\text{m}$ , 80  $\mu\text{m}$ , 127  $\mu\text{m}$ , 165  $\mu\text{m}$ ), enabling higher shoreline density and pitch conversion across application requirements.
- **Detachable Connector:** Offers a detachable solution for flexibility in deployment and maintenance.
- **Passive Alignment:** Efficient assembly to save cost.
- **Standardized TMT Ferrule:** Utilizes a physical contact interface with standard TMT ferrule (125  $\mu\text{m}$  hole) for reliability and ease of use.
- **High Channel Count:** Enables connectivity for more than 24 channels (single connector), supporting advanced applications.

## Supporting Future-Ready NPO and CPO Architectures



# CORNING

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA  
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2026 Corning Optical Communications. All rights reserved. OEM-152-AEN / March 2026