

Maximise the Performance of Your AI Infrastructure

As demand grows for AI, HPC, and machine learning applications, Nvidia® infrastructure is leading the charge. But to truly unlock its potential, your network needs optics built for speed, scale, and reliability.



At GBICS, we provide high-performance, Nvidia®-compatible transceivers optimised for GPU-intensive workloads—offering the same reliability as OEM optics, but at significantly lower cost.

Why choose GBICS?

- **Nvidia® Preferred Partner**
Our dedicated team facilitates and accelerates optical networking projects, offering tailored support from inception to installation, with expert advice and customised networking solutions.
- **AI-Optimised Performance**
Our exclusive software and manufacturing floor control system shape our business practices and guide our operational framework and quality management. We meticulously monitor every transceiver's journey through every phase of production and testing
- **400G & 800G**
Supports next-gen form factors including QSFP-DD and OSFP, ensuring future-proof scalability.
- **Proven & In Stock**
Trusted by AI data centres across the UK and Europe—available for immediate deployment.

Experience the GBICS Advantage

Transceivers, cables and a variety of networking accessories. We are committed to providing competitively priced and high-performing optical connectivity products. Get benefits without compromise.

Three steps to success:

- **Pre-Sales:** GBICS works closely with customers to understand their goals and priorities, offering specialist consulting services and collaborative solutions.
- **Technical Qualification:** Our team of experts ensures seamless integration of multiple vendors' equipment, providing in-depth technical support throughout the qualification process.
- **Deployment:** GBICS offers end-to-end assistance, reducing costs and eliminating barriers with agnostic technology, guaranteeing a successful deployment.

Nvidia®-Compatible Transceivers for AI & HPC

Choosing the right transceivers is critical to maintaining performance and uptime in Nvidia®/Mellanox-based networks. Our products are specifically tested and validated for today's AI and HPC environments.

Built for Ethernet & InfiniBand AI Workloads

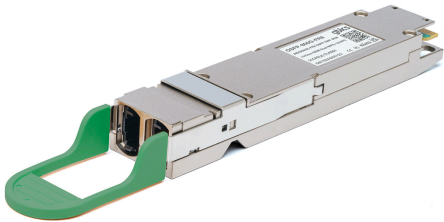
Whether you're deploying ultra-high-speed Ethernet or InfiniBand, our 800G optics are rigorously tested for real-world performance—without the OEM price tag.

Below are some of our most popular transceivers, designed to meet the specific demands of modern AI and HPC networks.

800G Optical Solutions

- **SR4 / SR8 (Multi-mode)**
Short-reach, high-bandwidth connectivity for AI clusters.
- **DR4 / FR4 (Single-mode)**
Designed for long-distance links and full fabric coverage.

Product	Speed	Reach	Connector Type	Application
OSFP 2xFR4	800G	2km	2x LC Duplex	Twin-port, mid-reach cluster fabrics
OSFP 2xDR4	800G	500m	2x MPO-12/APC	Twin-port connections for GPU/AI clusters
OSFP 2xSR4	800G	50m	2x MPO-12/APC	High-speed, in-rack links



GBICS 800GBASE-FR8 2km Transceiver

400G Optical Solutions

- QSFP-DD & OSFP**
Seamlessly integrates with Nvidia®/Mellanox 400G & 800G switch platforms.
- QSFP112 & OSFP-RHS**
Fully compatible with Nvidia® ConnectX-7 NICs and other high-performance compute adapters.

Product	Speed	Reach	Connector Type	Application
QSFP112 LR4	400G	10km	LC Duplex	Connects spine and core links over long distances
QSFP112 FR4	400G	2km	LC Duplex	Connects leaf and spine uplinks over mid-range distances
QSFP112 DR4	400G	500m	MPO-12/APC	High-speed interconnects for AI and GPU clusters
QSFP112 SR4	400G	50m	MPO-12/APC	Short-range, in-rack connections
QSFP-DD DR4	400G	500m	MPO-12/APC	Powers AI-ready, mid-range optical fabrics
QSFP-DD SR4	400G	100m	MPO-12/APC	High-throughput, short-reach links
QSFP-DD SR8	400G	100m	MPO-16/APC	High-density breakout and rack-to-rack connectivity
OSFP-RHS DR4	400G	500m	MPO-12/APC	Ideal for Nvidia® network adapter cards
OSFP-RHS SR4	400G	50m	MPO-12/APC	Ideal for Nvidia® network adapter cards

Engineered for Ethernet & InfiniBand Workloads

Whether you're scaling with high-performance Ethernet or InfiniBand environments, ProLabs optical solutions are tested for real-world performance in AI workloads without the premium price.

Ready to Scale?

Get in touch today for pricing and availability. Discover how GBICS can help you scale smarter—with high-performance, cost-effective optics built for the future of AI.

Email sales@gbics.com or call +44 (0) 1285 886444



GBICS 400GBASE-SR8 100m QSFP-DD Transceiver