

Global Leading DCI Box Manufacturer: HTF Showcases High-Capacity Interconnect Systems at IIXS in Indonesia



Shenzhen, Guangdong Aug 2, 2026 ([Issuewire.com](https://www.issuewire.com)) - As the digital transformation across Southeast Asia accelerates, network operators, internet service providers (ISPs), and data center managers are gathering at the Indonesia Internet Expo & Summit (IIXS) in Jakarta to explore next-generation infrastructure solutions. Driven by the rapid expansion of cloud computing, artificial intelligence workloads, high-definition media streaming, and enterprise data traffic, the demand for scalable, high-density optical transport networks has reached an unprecedented peak across regional markets. Against this vibrant industry backdrop, attendees and industry experts have highlighted the growing necessity for energy-efficient, high-capacity interconnect platforms capable of simplifying network management while drastically reducing optical latency. Addressing these critical regional infrastructure needs, HTF, a [Global Leading DCI Box Manufacturer](#), has drawn significant attention at IIXS by showcasing its flagship high-capacity optical interconnect systems. Designed to deliver high-density dense wavelength division multiplexing (DWDM) capabilities in compact form factors, HTF's flagship Data Center Interconnect (DCI) platforms offer scalable bandwidth expansion from 100G up to multi-terabit transmissions, allowing data center operators to scale optical networks seamlessly without

compounding operational complexity.

Industry Focus at IIXS: Driving Regional Optical Connectivity

The Indonesia Internet Expo & Summit serves as a premier platform for telecom leaders, cloud service providers, network security specialists, and system integrators across the Asia-Pacific region. As cloud adoption expands and enterprise data networks decentralize, regional operators face the operational challenge of upgrading legacy transmission links while keeping capital expenditures and operational costs under strict control. Throughout the exhibition floor, interactive technical demonstrations and technical exchanges have focused heavily on modular optical transport hardware engineered specifically for modern, high-density data center environments.

Visitors evaluating hardware at the venue have noted the practical, operational impact of compact, low-latency transmission architectures. Network engineers and infrastructure architects representing regional ISPs highlighted that high-density DCI platforms provide a straightforward, cost-effective path to scaling optical links between edge facilities and core data centers without requiring complex re-cabling or extensive room expansions. This real-time feedback from regional operators underscores a broader industry shift toward standardized, modular optical equipment that can be deployed rapidly, configured dynamically, and managed remotely. By grounding product demonstrations in real-world networking scenarios, the exhibition emphasizes how modern optical transport frameworks effectively eliminate bandwidth bottlenecks across expanding digital ecosystems.

Engineering Excellence: Modular DCI Architecture and Technical Innovation

To meet the rigorous transmission and reliability demands of modern enterprise architectures, HTF introduced its advanced modular transport platforms, anchored by high-density DCI systems such as the [3.2T DWDM System](#). Built upon over a decade of dedicated optical communication research, engineering, and manufacturing expertise, these platforms combine high-capacity transponder technology with low-power consumption design to optimize data transmission across both short-haul metro links and long-haul transport backbones.

Multi-Terabit Transmission Performance and System Scalability

The core strength of the platform lies in its optical transmission performance and highly flexible line card configurations. Supporting modern coherent optical transmission technologies, the system integrates advanced digital signal processors (DSP) that mitigate chromatic dispersion, polarization mode dispersion, and non-linear fiber effects over extended distance spans. Key technical performance specifications and modular capabilities include:

- **Ultra-High Bandwidth Density:** Delivers up to 3.2 Terabits per second of total transmission capacity within a compact 1U or 2U rack-mountable chassis, dramatically reducing footprint requirements in space-constrained equipment rooms.
- **Multi-Rate Client Protocols:** Native support for 100G, 400G, and 800G QSFP-DD and OSFP optical transceivers, enabling smooth, non-disruptive migration paths across legacy protocols and next-generation high-speed interfaces.
- **Integrated Optical Amplification and Protection:** Built-in Erbium-Doped Fiber Amplifier (EDFA) modules, Semiconductor Optical Amplifiers (SOA), Raman, and Optical Line Protection (OLP) systems ensuring zero-downtime link switching and continuous network resilience.
- **Reconfigurable Optical Add-Drop Capabilities:** Fully compatible with Wavelength Selective

Switch (WSS) modules to enable dynamic, software-defined optical routing and automated wavelength restoration across complex mesh network topologies.

- Advanced Optical Time-Domain Reflectometry: Integrated OTDR functionality allowing real-time monitoring of optical fiber integrity and rapid fault localization without disrupting active data traffic.

By uniting high-density optical components into a standardized, modular chassis, the platform enables network operators to scale operational bandwidth incrementally as demand grows, simply by inserting additional hot-pluggable line cards and avoiding costly, disruptive infrastructure overhauls.

Comprehensive Product Ecosystem and Industry Applications

Beyond specialized DCI hardware, [HTF](#) provides an end-to-end optical communication portfolio engineered to service diverse network topologies and operational requirements. This unified hardware ecosystem encompasses high-speed optical transceivers ranging from 100G QSFP28 to 400G and 800G AI-optimized optics, alongside customized MPO and MTP fiber trunk assemblies manufactured to exact customer specifications.

The inherent versatility of this comprehensive product portfolio enables seamless deployment across a broad spectrum of commercial, industrial, and enterprise networking sectors:

- Telecommunications and Internet Service Providers: Building scalable metropolitan distribution networks, regional backhauls, and long-distance transport backbones reinforced by automatic optical protection.
- Data Center Interconnect (DCI) and Cloud Infrastructure: Linking geographically dispersed hyper-scale and edge data centers with sub-millisecond latency, high density, and coherent optical transmission.
- Smart Electric Power and Public Utilities: Delivering robust, interference-immune data transmission along high-voltage power lines through specialized optical amplification and dispersion management.
- Enterprise, Education, and Media Broadcasting: Supporting high-bandwidth academic research networks, ultra-high-definition television broadcasting streams, and secure private enterprise backbones.
- Network Security and Financial Systems: Providing low-latency, deterministic optical links necessary for real-time data replication, disaster recovery, and high-frequency digital transactions.

Through flexible customization collaboration models, responsive technical support, and rapid supply chain execution, HTF tailors its optical transmission platforms to match the unique operational parameters of every partner. This collaborative approach allows clients to incorporate specialized management features, optimize network topology performance, and maintain long-term competitive advantages within their respective markets.

Delivering End-to-End Reliability for Global Optical Networks

As global optical communication networks continue to evolve toward higher speeds and greater integration to support artificial intelligence processing, big data analytics, and cloud services, the necessity for dependable, energy-efficient optical transport equipment remains paramount. The enthusiastic reception of high-capacity interconnect platforms at IIXS reflects the regional market's strong demand for scalable optical transport solutions backed by rigorous hardware craftsmanship,

transparent manufacturing standards, and deep optical engineering expertise. By continuously advancing WDM systematic solutions, modular DCI platforms, and customized optical services, HTF remains dedicated to empowering network operators worldwide with robust, high-performance optical infrastructure built for the future of digital connectivity.

For complete details on optical communication platforms, technical specifications, and system integration services, please visit the official company website at <https://htfuture.com/>.



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