Hermesys



2026 DATA CENTRE SOLUTIONS

Hermesys delivers global data centre and AI solutions that bring together technical support, training, network optimisation and platform delivery, helping businesses run with efficiency and reliability from end to end.

OUR JOURNEY ACROSS MARKETS





ABOUT HERMESYS

Hermesys specializes in delivering end-to-end network infrastructure solutions for data centres, offering a comprehensive portfolio spanning structured cabling, optical transceivers, rack systems, power distribution, and cable pathway management.

OUR CAPABILITIES

Built on a high-performance, highly reliable unified platform, Hermesys supports rapid deployment, high availability and sustainable data centre operations.

SOLUTION OVERVIEW

- Designed for cloud, AI, HPC, and hyperscale data centres
- End-to-end solutions from physical layer to rack systems
- High bandwidth and high-density network support
- Low-latency, high-availability architectures

Scalable design for future expansion

CORE FEATURES

- High-Speed Optical Interconnects
  Supporting seamless evolution from 10G to 1.6T
- High-Density Cabling Architecture
  Optimized for space efficiency and simplified operations
- Comprehensive Rack Systems
  Supporting hot/cold aisle and modular deployments
- Intelligent Power Distribution
  PDU-level visualization and remote management
- Optimized Cable Management Systems
  Enhancing reliability and overall energy efficiency

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COMPLETE STRUCTURED CABLING SYSTEM SOLUTIONS

Hermesys delivers integrated copper and fiber cabling to power high- speed and mission-critical data centre networks.



A full portfolio of copper and fiber products, covering all network tiers and deployment scenarios.



Modular design, enabling fast deployment and flexible scalability.



Compliant with ANSI/TIA and ISO/IEC international standards, ensuring long-term reliable operation.

COPPER CABLING SYSTEM

PRODUCT FEATURES



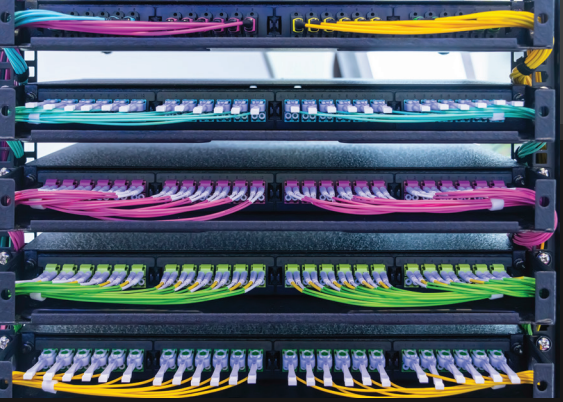
LadonX™ copper cabling

LadonX™ data centre copper cabling is designed to support Cat.6A, Cat.7, and Cat.8.2 applications, delivering stable and high-performance connectivity for modern data centre environments. Featuring a low crosstalk and low attenuation design, solid bare copper conductors, and an LSOH flame-retardant jacket, the system ensures reliable transmission, enhanced safety, and long-term operational stability.

HydraX™ Slim Patch Cord

The HydraX™ Slim Patch Cord is an ultra-thin copper patch cable designed for high-density rack environments, significantly reducing cable bulk while maintaining reliable performance and improving port accessibility. Featuring 28AWG / 30AWG construction and flexible stranded conductors, it enhances rack space utilization and simplifies cable management and maintenance. The patch cord supports 10G applications and is available in customizable lengths and colors for easy network identification and management.





COPPER CONNECTIVITY SYSTEM

PRODUCT FEATURES

HIGH-PERFORMANCE MODULAR COPPER PATCH PANEL SERIES

Hermesys patch panels offer a comprehensive range of designs including 1U 48-port high-density flat, staggered, and angled configurations, enabling flexible adaptation to various rack layouts and cabling requirements. Constructed from cold-rolled steel with electrostatic powder coating and nickel-plated finishing, and equipped with integrated rear cable management, the system enhances cable organization, space efficiency, and ease of maintenance for data centres and mission-critical network infrastructures.



HydraX™ 1U 48P HD Patch Panel

- HD 48-Port High-Density Design.
- Individual Port Identification with Transparent Label Strip.



HydraX™ Staggered Patch Panel

- Staggered port design effectively reduces alien near-end crosstalk (ANEXT).
- Suitable for unshielded Cat.6A cabling solutions.



HydraX™ Angled Patch Panel

- Angled design with side cable routing eliminates the need for additional cable managers, improving rack space utilization.
- Modular front plate design allows separate remove and front-side access for easy installation and maintenance.



HydraX™ Keystone Jack

- Tool-free installation.
- Gold-plated contacts.
- Fully shielded all-metal housing for shielded type.
- Compact design.

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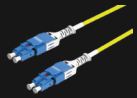
HIGH-DENSITY FIBER CONNECTIVITY

PRODUCT FEATURES



HydraX™ LC Switchable Uniboot Push-Pull Fiber Patch Cord

HydraX™ LC Switchable Uniboot Push-Pull Fiber Patch Cord enables tool-free on-site polarity switching and features a compact uniboot design that houses two fibers in a single jacket to save space while improving cable durability. Its push-pull tab allows quick and reliable operation in high-density patch panels, making it ideal for data centres, high-speed networks, and fiber optic interconnections.



HydraX™ CS-LC Uniboot High-Density Fiber Patch Cord

HydraX™ CS-LC Uniboot High-Density Fiber Patch Cord is 40% smaller than standard LC duplex connectors, delivering twice the port density for 200G, 400G, and 800G applications. It is fully compatible with QSFP-DD and OSFP transceivers, while the push-pull tab design ensures easy handling in high-density patch panels.



HydraX™ MMC Multi-Fiber Connector

HydraX™ MMC Multi-Fiber Connector delivers up to three times the density of MPO, featuring a DirectConec™ push-pull boot for easy handling in high-density environments. It supports APC for both single-mode and multimode applications, offers 1×12, 1×16, and 2×12 configurations, and is compatible with MT and MT-16 ferrules with slim 2.5 mm cabling.



HydraX™ 3M™ EBO Expanded Beam Optical Connectors

HydraX™ pre-terminated fiber cables with 3M™ EBO Expanded Beam Connectors use non-contact optical technology to reduce sensitivity to dust and contamination, minimizing cleaning and maintenance. The solution offers higher fiber density per connector, and deliver excellent resistance to dust, debris, and vibration.



FIBER OPTIC SYSTEM

Fiber optic system integrating HydraX™ high-density connectivity solutions with LadonX™ scalable fiber cabling, supporting data centre, backbone, and campus network deployments with efficient installation and reliable optical performance.

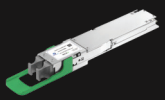


HIGH-SPEED OPTICAL MODULES & INTERCONNECT SOLUTIONS

Designed for cloud computing, AI training, and HPC networks, supporting multi-generation data rates from 10G to 1.6T. The portfolio includes DAC, ACC, AEC, AOC, and optical transceivers, addressing different distance, bandwidth, and power requirements while enabling smooth network evolution and future upgrades.

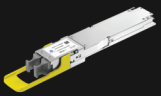
HIGH-SPEED OPTICAL TRANSCEIVERS

PRODUCT FEATURES



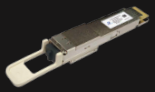
HydraX™ OSFP 1.6T DR8 Optical Transceiver

- Supports 1.6 Tb/s ultra-high-speed data transmission to meet next-generation network requirements.
- OSFP form factor with optimized power and thermal performance.
- Designed for AI clusters and high-performance computing (HPC) networks.



HydraX™ OSFP 800G DR4 Optical Transceiver

- Designed for 800G data center interconnect applications, balancing power consumption, port density, and reach.
- Supports 800G DR4 with transmission distances of up to 500 m.
- Power consumption below 18 W, enabling higher port density.
- Utilizes PAM4 modulation, supporting 212.5Gbps per channel.



HydraX™ 400G QSFP-DD ZR Optical Transceiver

- 400G coherent DWDM module for DCI and Open ZR+ networks.
- QSFP-DD Type 2B form factor for high-density switches and routers.
- Integrated coherent DSP, C-band tunable optics, and built-in EDFA.
- Supports O-FEC and CFEC for enhanced long-haul transmission reliability.
- Fully compliant with Open ZR+ MSA 2.0, enabling white-box and open networking deployments.

Transmission Distance		
DWDM with Amplification	400G ZR	120km
	400G ZR+	450km
	300G ZR+	600km
	200G ZR+	1000km
	100G ZR+	2000km
Single Wavelength, No Amplification	400G ZR Gray Optics	80km
	400G ZR+ Gray Optics	90km

Multi-Rate & Interface Capabilities	
Line Rate	100G / 200G / 300G / 400G
Client Rate	1 × 400GbE or 1 / 2 / 3 / 4 × 100GbE

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Network & Server Cabinet Solutions

Hermesys cabinet solutions provide a robust and flexible mounting platform for high-density IT equipment, suitable for network core areas and server zones, and supporting multiple cooling and cabling configurations.



PRODUCT FEATURES

CetoX™ Network & Server Cabinets

CetoX™ network and server cabinets feature a high-strength cold-rolled steel structure designed for high-density data centre deployments. With high load-bearing capacity and high-ventilation door panels, they support heavy server installations and optimized hot- and cold-aisle airflow. The system is compatible with structured cabling, PDUs, and smart locks, and supports multiple configurations and customization options.





CetoX™ Intelligent Power Distribution Units

CetoX™ intelligent PDUs enable real-time power monitoring for high-density rack environments, improving energy efficiency and operational safety. Supporting single-phase and three-phase configurations, the system offers branch-level current, voltage, and power monitoring, energy metering and alarms, and remote management interfaces, with flexible outlet options to suit different rack requirements.

CetoX™ IoT Intelligent Rack Lock

The IoT intelligent rack lock supports multiple access methods and interfaces, including RS485, Ethernet, wireless, and Wiegand. With local or cloud-based management platforms, it enables real-time rack monitoring, access control, operation logs, and system integration with third-party access control systems for improved security and efficiency.



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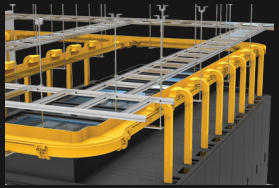
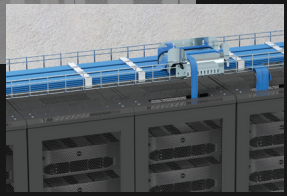
Fiber Raceway & Metal Cable Tray Solutions

Efficient and well-organized cable management solutions for data centre environments.

CetoX™ Modular Fiber Raceway System

CetoX™ fiber raceway system is designed for installation above data centre racks or other fiber routing areas, providing organized management and protection for fiber optic cables. With multiple raceway width options and a full range of bends, branches, and drop accessories, the system enables flexible routing while maintaining smooth cable handling and proper bend radius control to ensure reliable optical performance.





CetoX™ Wire Mesh Cable Tray

CetoX™ wire mesh cable tray uses a high-strength metal mesh structure for managing power and low-voltage cables in overhead and raised-floor data centre environments. Its open design ensures excellent ventilation, while the lightweight yet high load-bearing structure supports fast installation. With multiple mounting options and various surface finishes, the system is suitable for long-distance routing and can be integrated with fiber raceway systems for coordinated cable management.





HydraX™ QSFP56 200G SR4 Optical Transceiver

- Operates reliably at immersion depths of up to 10 meters.
- Compatible with fluorinated fluids and mineral oils.
- Features precision sealing at critical interfaces.
- Maximum power consumption < 5 W (typical 4.1 W), effectively reducing overall data center energy consumption (PUE).



HydraX™ AEC – Active Electrical Cable

- Active high-speed cable with dual-ended signal boosting chips.
- Compensates for high-frequency signal loss to maintain link integrity.
- Suppresses jitter and improves overall signal stability.
- Enhances signal eye diagram quality for reliable high-speed transmission.
- Supports data rates of 400G and beyond.
- Available in 28–32 AWG, supporting transmission distances of up to 7 meters.



HydraX™ ACC-Active/Advanced Copper Cable

- High-speed active copper cable with signal amplification and equalization.
- Extended reach compared to DAC solutions.
- Supports data rates of 800G and beyond.
- Available in 26–32 AWG options.
- Copper-based transmission with active signal enhancement, typically deployed in TOR-to-Leaf connections.



HydraX™ DAC-Direct Attach Cable

- High-performance copper cable for short-reach, high-speed interconnects.
- Copper-based transmission for Server-to-TOR links.
- Supports data rates from 25G to 800G.
- Low power consumption and low latency for high-density deployments.
- Plug-and-play design with no external optical transceivers required.
- Available in 28–30 AWG options for optimized flexibility and reliability.



HydraX™ AOC-Active Optical Cable

- Integrated active optical interconnect combining transceivers and fiber cable.
- Extended reach with superior immunity to electromagnetic interference.
- Supports both multimode (MMF) and single-mode (SMF) applications.
- Lightweight and flexible design for high-density deployments.
- Supports data rates from 10G to 800G.
- Optical fiber transmission for Leaf-to-Spine links.

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FIBER CABLING& CONNECTIVITY

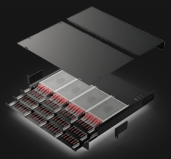
PRODUCT FEATURES



HydraX™ 4U High-Density Fiber Patch Panel

Engineered for ultra-high fiber density rack environments, this fiber enclosure features a lightweight yet durable aluminum alloy and high-strength ABS construction. Its user-centric design includes a tiered, bi-directional slide-out structure and integrated front cable troughs, ensuring flexible installation and streamlined O&M efficiency.

Fiber Density Matrix		
Rack Height	LC Duplex Capacity	MPO/MTP-12 Capacity
1U	144 fibers	864 fibers
2U	288 fibers	1728 fibers
4U	576 fibers	3456 fibers



HydraX™ 1U High-Density Patch Panel

HydraX™ High-Density Patch Panel is designed for high-density racks, supporting LC and MPO/MTP ports. It offers up to 144 cores (LC) or 864 cores (MPO/MTP) in panel, with a modular drawer-style structure for streamlined maintenance.



LadonX™ Spider Ribbon Cable

LadonX™ Spider Ribbon Fiber Cable is engineered for hyperscale cloud backbones. Its rollable ribbon structure supports up to 1,728 cores, maximizing space through reduced cable diameter and accelerating large-scale deployment via optimized splicing. The fully dry-core design ensures faster, cleaner installation.



LadonX™ Micro-duct Tight-Buffered Indoor Fiber Cabl

LadonX™ Micro-duct Tight-Buffered Indoor Cable features buffered fibers and an FRP strength member, offering 24-144 cores for scalable needs. Its LSOH jacket ensures data centre fire safety, while its high flexibility enables efficient installation in high-density environments.



HydraX™ Pre-Terminated Fiber Optic Cable

HydraX™ Pre-terminated Fiber Solution is designed for 100G+ high-speed networks, delivering MPO/MTP backbone cabling and high-density patching. It efficiently supports spine-leaf architectures, enabling high bandwidth, low latency, and rapid deployment.

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