



smartoptics

Expanding your network horizons

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Smartoptics offers optical transmission solutions making networks more powerful. Expanding bandwidth without the upfront investment or hassle of traditional WDM.

Organizations thrive on communication—a flow of data that runs between divisions and people that power progress. Fiber optic cables are high-traffic roads that carry information from office to office, site to site, country to country. That's why using a fiber optic cable as a single-lane road is wasteful. Smartoptics solutions turn fiber into a multi-lane highway capable of transporting up to 80 simultaneous traffic channels together at once. Smartoptics offers a way to “add lanes” through intelligent WDM networking. Expanding capacity. Without building new infrastructure. The end result: Faster. Lower-cost. Smarter. Smartoptics.

Smartoptics: Revolutionizing WDM

People choose Smartoptics because our products are easy to buy, easy to install and easy to maintain. Our products allow enterprises, governments, corporate data centers, SAN and IP architects to build simple, powerful and cost effective solutions to meet network capacity needs. A solution fit for purpose. One that will expand to accommodate change goals today. And tomorrow.


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Smartoptics:
Revolutionizing
WDM

What exactly is WDM?

Wavelength Division Multiplexing, WDM, is a technology that increases bandwidth by allowing different data streams to be sent simultaneously over a single optical fiber network. All signals at WDM wavelengths are independent from each other.

Instead of actually having to use multiple fibers for each and every service, a single fiber can be shared for several services. It's how WDM maximizes the usefulness of fiber and helps optimize network investments.

A man with dark hair and a beard, wearing a blue and white striped button-down shirt, is looking down at a smartphone he is holding in his hands. The background is a solid teal color with a blurred light fixture on the left.

*“Smartoptics adds the
missing link in our portfolio.”*

– Klaus Jensen, Arrow, Denmark

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Who we help

From airlines to hospitals. Banks to governmental organizations. Smartoptics helps organizations large and small keep up with the expanding demand of data flow. Our multi-channel optical fiber transmission solutions are the technology of choice in a range of sectors. That's because they are simple, cost effective, scalable and future proof. And enable huge amounts of data traffic to be transported over a dark fiber network.

Corporate data centers

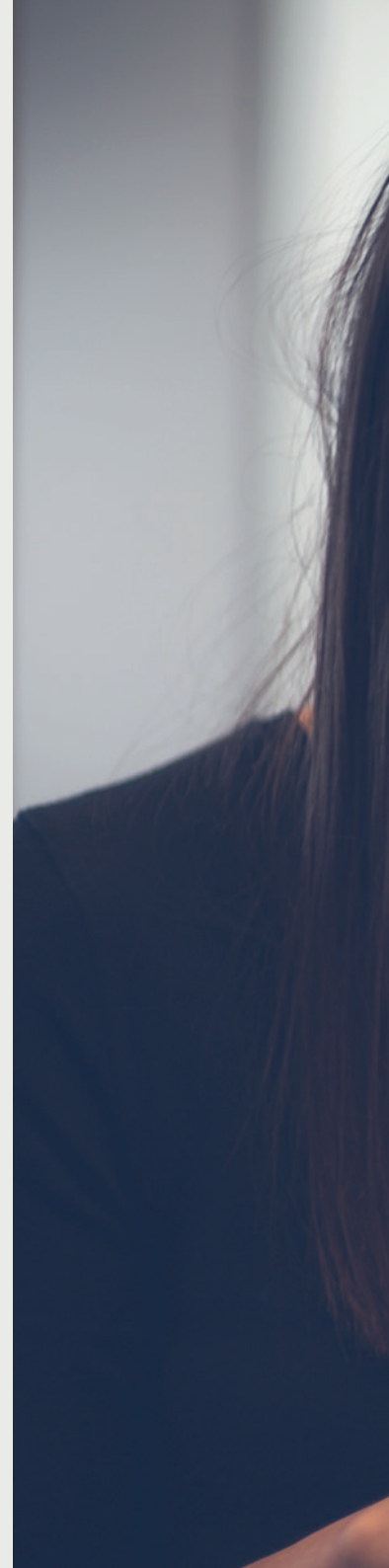
Corporate data centers, campus networks and enterprises look for simple, cost effective, future proof networks. Ones that enable huge amounts of data traffic to accommodate the ever growing demand for bandwidth-hungry services and applications transported over a dark fiber network. Our approach simplifies DWDM and allows data centers to build powerful, cost effective solutions to meet network capacity needs today and tomorrow.


Governments

Governments struggle with the growing demand of transporting huge amounts of data. Traffic made up of highly sensitive information. It is vital that they have a resilient way of transporting sensitive information between sites. They require encrypted systems that are easy to operate and install. Ones certified and approved by leading manufacturers. Easily monitored. And expanded. With no downtime or need to forklift to new platforms.

Hosting solution providers

Hosting providers need high-capacity and high-speed protocols for their customers. In a competitive market costs have to be low, with no hit on quality and reliability of service. Managing services over dark fiber networks requires reliable systems. Long-range transmission capabilities. Monitoring of the individual service delivery traffic channels. Simplicity is a must to avoid unwanted and unnecessary running costs and service engineers.



A woman with long brown hair is looking down at a smartphone in her hands. She is wearing a black top with a white lace collar. The background is blurred, showing a bright light source and some green foliage.

“We see ourselves at the forefront when it comes to technical innovation. Smartoptics was the only vendor that could meet our technical and commercial requirements. The traditional carrier grade systems offered by far more than we needed. Smartoptics M-Series provided the perfect fit.”

– Kate Baker, Custodian, UK

"We replaced an entire legacy system for a large governmental organization. The cost for the complete Smartoptics solutions was the same as the yearly maintenance contract from their previous supplier. The new solution is better, smarter and faster!"

– Ian Deane, IDS, Australia

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Our Products

Smartoptics expands your network horizons. Through optical transmission solutions tailored to each customer's specific network demands. And certified by the major switch vendors ensuring highest quality standards. Smartoptics can be leveraged wherever there is a dark fiber network available. Our solutions can be used with any number of channels or specific protocols regardless of traffic speed and type.

Intelligent Distance Extension Multiplexers

Smartoptics' M-Series marks a revolution in fiber optic networking solutions. The M-Series is a unique 1U multiplexer platform. It combines the simplicity of a passive multiplexer with the features of a more traditional transponder-based DWDM platform. A multiplexer with integrated management, amplification and signal conditioning. It easily handles all of today's data protocols up to 100Gbps in a simple plug and forget approach. All types of enterprises can now synchronously connect storage and data traffic at distances of up to 500 kilometers with minimal signal latency.

Multiplexers and OADMs

At Smartoptics, we offer everything to help you get more out of your fiber networks. Including multiplexers and optical add/drop multiplexers (OADMs). An optical multiplexer combines wavelength channels onto an optical transmission fiber. OADMs are used in WDM systems for multiplexing and routing fiber optic signals, selectively adding and dropping individual or sets of wavelength channels from an XWDM stream. Both give you more flexibility in terms of the volume of traffic and type of data you want to transmit.

Transponders and Muxponders

To manage diverse network requirements, we offer a suite of transponders and muxponders. They enable the creation of highly flexible and scalable networks for CWDM/DWDM/OTN and dark fiber connectivity with encryption for up to 80Gbps of traffic. All traffic types are handled for SAN, WAN, voice and video connectivity between sites. For point-to-point networking or a ring network with add/drop terminals, Smartoptics distributes your traffic in a simple and cost efficient way.

Optical transceivers

Getting the most out of your fiber network means options: A range of flexible modules that cover all of your network needs. Optical transceivers for starters. Our products can be purchased and then re-programmed for additional use. Saving time. And money when network demands change. Our optical transceivers handle all storage, data, voice and video traffic whether linking rack to rack, bottom to top of rack, data center to data center or enterprise networks.

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Smartoptics Brocade Alliance

Smartoptics' end-to-end SAN extension solutions are certified by Brocade. We are the only vendor whose complete end-to-end solutions are layer 1 tested by Brocade. Our systems for 4Gbps, 8Gbps and 16Gbps XWDM are based on our simple, cost effective XWDM embedded technologies. They allow for intelligent long-distance connectivity without the need for expensive, complex stand-alone DWDM platforms. With Smartoptics embedded XWDM solutions Brocade users can connect as many SAN & WAN Internet switch links (ISLs) as required, independent of speed.

Together Smartoptics and Brocade provide best in class one-stop solutions for data and transport, making sure you get the most out of your systems budget. That quality is ensured from network design to overall maintenance.

BROCADE 





Want to know more?

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Smartoptics offers optical transmission solutions making networks more powerful. Expanding bandwidth without the upfront investment or hassle of traditional WDM. Our products allow corporate data centers, governments, hosting solution providers and ISPs to build simple, straightforward and cost effective solutions to fulfill their ongoing and future network capacity needs. Headquartered in Oslo, Norway, Smartoptics is an international provider with thousands of installations all around the world. Our award-winning approach has helped companies from every industry sector stay ahead of expanding network demands.

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