



Get In Touch
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ULTRA-LOW LATENCY **10G/40G/100G** OPTICAL TRANSPORT

Build a better network with reliable, industry leading ultra-low latency optical transport



Complete Solution

5-year warranty included with every purchase. No extra charges for licenses, or anything ever.



Simple Deployment

Product deployment and management go smoothly with a straightforward management interface and SNMP monitoring.



No System Failures

We provide Extreme MTBF as our equipment has never gone down in the field.



Intuitive Interface

Network operators use a simple router-like CLI to quickly install and configure DarkStar products.

Robust Solutions

WHY IT'S BETTER

The DarkStar 10G product family are modular compact purpose built DWDM appliances designed for providing ultra-low latency 1G, 10G, 40G and 100G transport services simply and reliably. Designed and manufactured in the U.S meeting high testing standards and built-in redundancy to ensure DarkStar gear is built to last.

Optical Networking

HOW IT WORKS

We engineer Layer 1 optical transport equipment and provide innovative solutions and network resiliency for enterprises, service providers, data centers and internet exchanges. Our products are cost effective, low maintenance, and technologically feature rich, allowing architects to build networks on a solid foundation.

INDUSTRY LEADER ULTRA-LOW LATENCY

- Each 10G system adds **40 nanoseconds** to the overall latency of a network
- Financial institutions, esports (gaming) and 5G all need to have the lowest latency available
- No packet inspection, buffering or packet routing

INTERCONNECT APPLICATIONS

- Spans can be separated by as much as **150 km** without a need for mid-span amplification
- Integrated system architecture provides a Digital ROADM (Reconfigurable Optical Add Drop Multiplexer) to remotely switch traffic with any-to-any mapping
- Tuneable systems (based on ITU grid) or with fully integrated optical components including DWDM Mux/Demux filter, Erbium-Doped Fiber Amplifier (EDFA) and Dispersion Compensation Module (DCM)
- Soft-selectable encapsulations such as Ethernet, Fibre Channel and SONET on a per port basis combine flexibility and scalability
- Installations take about 10 to 30 minutes and provide deployments with simplified planning, ordering, installation, operation, and maintenance

TECHNICAL SPECIFICATIONS	
Physical Dimensions	Height: 1RU or 2RU Width/Depth: 16.9"/27.3" (29.5" with cable relief), 16.9"/17.5" (19.8" with cable relief) Weight, minimum: 32lbs
Optical Characteristics	Wavelengths per System: 4, 10, 12, 24, or 36 channels available Amplification: EDFA pre-amp, EDFA booster Mux/Demux: 4, 10, 2X2, 2x5, 12, 24 and 36 Channels with 100GHz spacing
Services	(All services are soft configurable.) Ethernet: 1GE, 10GE, 10GE + FEC, 40GE, 100GE SONET: OC48/STM16, OC192/STM64, OC192 + FEC (OTU3) Fibre Channel: 2G, 4G, 8G, 10G
Power Requirements	Power input AC: 100-240V AC, 50/60Hz Power input DC: -48 to -60V DC Power consumption, typical: 0.53W per Gigabit
Environmental	Operating temperature: 0 to 50°C Storage temperature: -40 to 70°C MTBF: 87,600 hours Non-operating (Shock and Vibration): ISTA-2A, IEC60068-2-6, 60068-2-64, 60068-2-27

DIVERSE TOPOLOGIES

- We support a wide array of topologies to suit simple to complex network architectures
- Point-to-point, ring and mesh
- Campus, enterprise, metro, regional and long haul
- Hub-spoke, leaf spine, or linear topologies all with diverse capacity ranges

10G MODELS



DQT10 Transponder



DQM10 Muxponder



DSM10 Muxponder



DSM5R Muxponder



Visit us at www.xkl.com, call us at 866.802.2777(USA toll free) or +1.425.497.6590 to design a solution that best fits your network needs

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