

## Nokia 1830 PSI-CL

Application-Optimized Optical Line System  
OIF 400ZR/OLS Interop Demo

The 1830 Photonic Service Interconnect – Compact Line (PSI-CL) provides flexible, modular and scalable optical networking solutions for data center interconnect (DCI) applications.



Scalable Agile Resilient Cost-Effective

The compact, modular PSI-CL is optimized for metro-based DCI applications. The PSI-CL supports four module slots that can be used with a mix of amplifier and protection switch cards, along with passive 48, 64, and 96 channel mux/demux units to create a complete WDM line system. When paired with the industry leading 1830 PSI-M transponders, the PSI-CL provides a complete DCI solution to transport 100GE and 400GE client services.

### Features

- Modular architecture
- Compact, scalable platforms
- Application-optimized designs and functionality
- Enables introduction of 400G DCOs
- Multiple protection options
- Modular power and redundancy options
- Open programmability
- Simplified, automated OAM

### Applications

- Optimized for point-to-point metro, applications
- Metro data center expansion
- Local data caching to metro point of presence
- Router interconnect with router based 400ZR optics
- Applications requiring front/back airflow with data center or 19"/23" racks



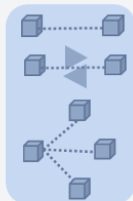
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Point-to-Point DCI /  
Metro Access &  
Aggregation

DCI



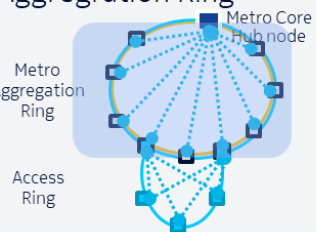
Access Ring

Metro  
Aggregation  
Ring



Aggregation Ring

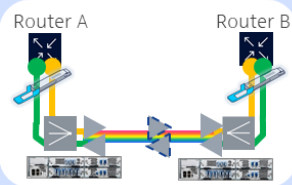
Metro  
Aggregation  
Ring



### OIF 400ZR/OLS Demo

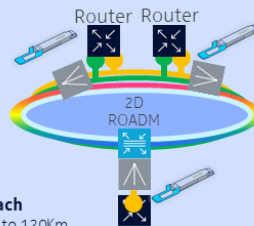


1830 PSI-CL



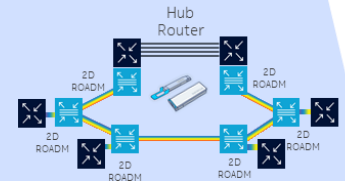
**Simple**

Single to multi-span  
Point-to-point traffic  
No intermediate nodes



**Reach**

40GZR Up to 120Km  
400GZR+ Up to 1200Km



**Medium**

Multi-span  
Hub & spoke traffic (dual-homed)  
Rings & horseshoe

### About Nokia

We create technology that helps the world act together.

As a trusted partner for critical networks, we are committed to innovation and technology leadership across mobile, fixed and cloud networks. We create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs. Adhering to the highest standards of integrity and security, we help build the capabilities needed for a more productive, sustainable and inclusive world.

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