

The Next-Generation Agile Optical Network

Components from the industry leader in ROADM and tunable innovation



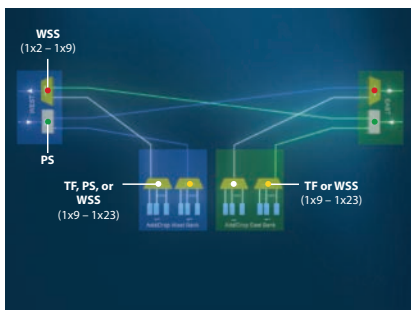
JDSU offers the industry's broadest portfolio of optical communications solutions used to build and maintain an agile optical network. The solutions are dynamically reconfigurable, letting you increase service velocity, provision new services, and modify topologies via a remote network management system. And, they reduce OpEx and CapEx by reducing truck rolls, sparing, and inventory, and by minimizing expensive optical-electrical-optical (OEO) interconnects.

Delivering on the Colorless and Directionless Promise

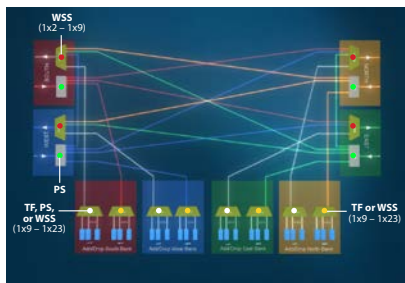
Demands for bandwidth capacity are growing exponentially, and network operators need to transform their infrastructure into high-performance yet cost-efficient systems. Next-generation agile optical networks meet these demands with colorless, directionless architectures that maximize bandwidth and agility while minimizing hardware requirements and complexity.

Optical networks with colorless nodes use a variety of power splitters (PSs), tunable filters, and wavelength-selective switches (WSSs) to manage traffic flow. As demands on bandwidth grow, however, the need for network agility and efficiency increases. Traditional configurations require dedicated add/drop banks for each direction—adding directionless functionality to the node enables the use of shared add/drop banks that support all directions, reducing equipment requirements and complexity.

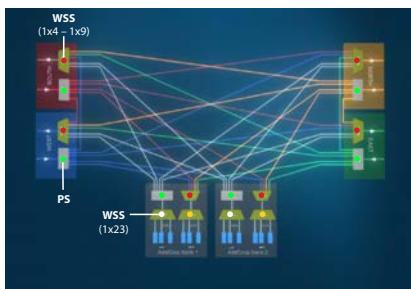
Adding more add/drop banks to a colorless and directionless configuration can dramatically increase a node's port count. This also increases the node's cost and complexity by requiring a greater number of components. A more elegant way to increase port count is to use high-port-count WSSs, like the JDSU HPC Mini WSS 1x23, reducing equipment costs and complexity while increasing port capacity and node agility.



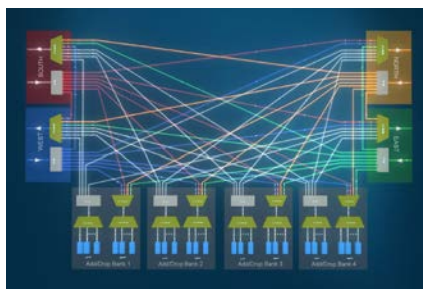
Two-degree colorless node



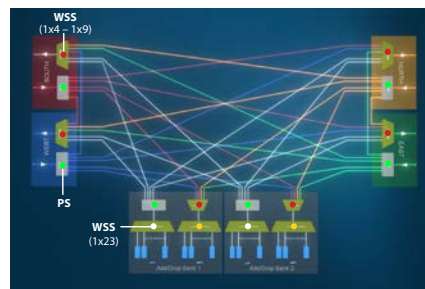
Four-degree colorless node



Four-degree colorless/directionless node



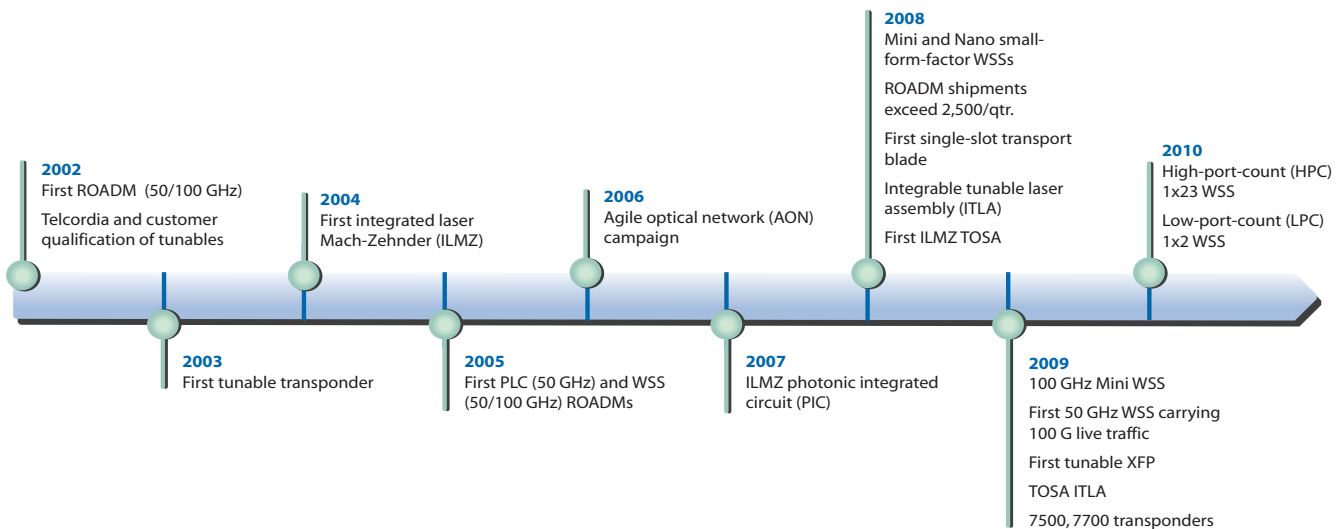
Four-degree colorless/directionless node with a high number of add/drop ports



Four-degree colorless/directionless node with JDSU high-port-count 1x23 WSSs

JDSU Leads in ROADM and Tunable Innovation

With unsurpassed expertise in component design and photonic integration, JDSU collaboratively innovates with equipment manufacturers to consistently deliver industry-leading technologies. From the first tunable XFP transceiver and the first single-slot optical transport blade to the high-port-count, 1x23 Mini WSS, JDSU continues to be the optical component supplier of choice for building successful, next-generation agile optical networks.



ROADM highlights

- Industry's only 50 GHz WSS carrying 100 G live traffic
- Market leader since 2002
- Worldwide deployment in all networks
- 50 GHz cascadable to 24+ nodes
- Scalable platforms (1x2 to 1x23)
- High-volume manufacturing—thousands per quarter

Tunable highlights

- Linear tunable transceiver (T-XFP+)—200-km reach and enhanced tolerance to fiber impairments
- Negative-chirp tunable XFP transceivers—fixed DWDM XFP replacement and enhanced metro-regional performance
- Zero-chirp tunable XFP transceivers—enhanced long-haul performance

Comprehensive, End-to-End Portfolio

JDSU maintains the only end-to-end portfolio of add/drop components and tunables—a single source for the most innovative and reliable agile optical networking components available today, with a full line of high- and low-port-count 50 and 100 GHz WSSs, power splitters, tunables, and tunable filters and arrays.

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|  | AON Super Transport Module—all-in-one module solution for optical transport |  | AON Super Transport Blade—all-in-one blade solution for optical transport |
|  | High-port-count (HPC) Mini WSS, 50 GHz, 1x23 |  | Low-port-count (LPC) Mini WSS, 100 GHz, 1x2 and 1x4 |
|  | Low-port-count (LPC) Mini WSS, 50 GHz, 1x2 and 1x4 |  | Nano WSS, 100 GHz, 1x2, 1x4, and 1x9 |
|  | Mini WSS, 50 GHz, 1x9 |  | Tunable filter array (TFA), 8 channel, optional OCM |
|  | Mini WSS, 100 GHz, 1x9 |  | Tunable filter (TF), 1 channel |
|  | Tunable XFP, 10 Gbps transceiver |  | Integrable tunable laser assembly (ITLA) |
|  | 7100/7500/7700 Series 10 Gbps MSA transponders |  | Integrable tunable laser assembly transmit optical subassembly (TOSA ITLA) |
|  | Tunable integrated laser Mach-Zehnder transmit optical subassembly (ILMZ TOSA) |  | Small-form-factor Mini ITLA for 40/100 G solutions |



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