



**CHAMPION
O·N·E™**



Champion ONE Solution
Single-Fiber Single
Wavelength (SFSW) SFPs

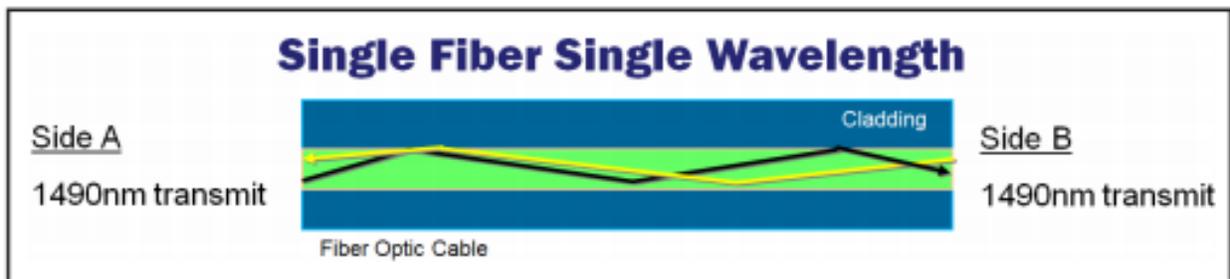
CHAMPION ONE'S EXCLUSIVE SINGLE FIBER SINGLE WAVELENGTH OPTICS DOUBLE FIBER UTILIZATION FOR OHIO-BASED DRS LLC

DRS Identifies An Innovative Solution To Help Drive Costs Down

DRS's building and metro cabling services division has been building out its infrastructure for more than 10 years, providing metro area clients with broadband services, IT expansion services and critical support capabilities. To support commercial growth in the Ohio market, DRS was seeking a cost-effective solution that would increase capacity by optimizing its existing fiber runs to complete fiber optic rings in the Columbus metro region. The company also was seeking practical solutions that would pave the way for future expansion.

With two dual-fiber runs that were exhausted for future growth, DRS turned to Champion ONE. Working closely with Champion ONE engineers, DRS opted to deploy single-fiber single-wavelength (SFSW) small form-factor pluggable (SFP) optics. SFSW transceivers provide a direct replacement for dual-fiber SFP optics by enabling full duplex transmission on a single strand of fiber.

Champion ONE's SFSW optics enable users to both send and receive a service on a single strand of fiber while using the **same wavelength on both ends of the link**. Additionally, by using the same wavelength on both ends, operational concerns are minimized and splicing is simplified. This is because, as compared to traditional single-fiber bi-directional optics, engineers no longer need to worry about book-ending their links with matched pairs.



Deploying SFSW optics provided DRS with the technological ability to double its existing fiber capacity, freeing up the constricted dual-fiber strands and eliminating the need for the company to incur the high costs of running new fiber.

"With Champion ONE, we gained value and saved money at the layer one level," said Dave Wilkeson, DRS chief technology officer. "Any time you can save fiber count, it's a very good thing."

Enabling Future Growth

Champion ONE SFSW optics also positioned DRS's infrastructure for future growth. When the need arises to increase capacity over the same fiber, because Champion ONE's SFSWs are designed for use with its coarse wavelength division multiplexing (CWDM) technology, passive filters can be used. Passive CWDM filters allow for multiple channels of mixed protocols and data rates to be combined and transmitted over fiber optic cable. These passive mux/demux CWDM filter modules provide for up to eight wavelengths on a single strand of fiber, enabling the addition of substantial bandwidth without running new fiber or incurring the costs associated with high bandwidth network upgrades.

For DRS, deploying CWDM filters would provide a streamlined migration path from its existing infrastructure to providing eight services over a single strand of fiber. Moreover, staying a step ahead of the needs of the industry, Champion ONE is currently developing an SFSW optic that supports a 10 Gigabit data rate to broaden its product catalog and to complement its roster of SFSW optics that support data rates up to 1 Gigabit and distances up to 60km.

Exceptional Service and Support

Additionally, Champion ONE provides DRS with customer centric service and support, and high product availability. This enables DRS quick access to information, as well as innovative products, enabling the company to keep a reduced inventory on hand.

"With Champion ONE we can actually speak to an engineer whenever we need to, and gain valuable information at the fiber level," Wilkeson said.

DRS has both a regional and niche presence in the industry, serving organizations ranging from hospitals, manufacturing and financial entities to an array of collision centers, which require reliable connectivity for software specific to their business.

"DRS relies on Champion ONE for high-quality, cost-effective products that maximize fiber, which enables us to deliver dependable service to our client base," Wilkeson said. "Additionally, having access to fiber optics industry experts provides a level of support unavailable through most OEMs.

"With Champion ONE we can actually speak to an engineer whenever we need to, and gain valuable information at the fiberlevel."
- Dave Wilkeson, CTO

"With Champion ONE, we gained value and saved money at the layer one level."
- Dave Wilkeson, CTO

THE CHAMPION ONE COMMITMENT



For over twenty years, we at Champion ONE have been delivering great value to our customers through high-quality products at competitive prices. As one of the leading suppliers of compatible optical transceivers and a major supplier of optical networking solutions, we take great pride in building long-term relationships as a trusted partner. In this spirit, everything we bring to market bears the Champion ONE Shield™, which strengthens this trust through five core promises: Performance, Availability, Compatibility, Protection, and Value.

Product photos are representative samples only.

Champion ONE and the Champion ONE logo, are registered trademarks of Champion Optical Network Engineering, LLC. All other trademarks, service marks, registered marks, or registered service marks are the property of their respective owners. Champion ONE assumes no responsibility for any inaccuracies in this document. Champion ONE reserves the right to change, alter, or otherwise revise this document without notice.

GLOBAL HEADQUARTERS

Champion ONE
23645 Mercantile Road
Beachwood, OH 44122
Phone: 800-860-7466
Fax: 216-831-2541
e-mail: sales@championone.com
www.championone.com

10.2.2015 – REV 1