Nistica launches wavelength management products for data center and 5G mobility applications

Compact wavelength switching, power management and spectral control modules address emerging networking needs

BRIDGEWATER, NEW JERSEY, March 12, 2018 – Nistica, a Fujikura subsidiary supplying agile optical networking solutions, today unveiled a suite of optical products that addresses the bandwidth explosion in data-center and 5G wireless networks. Nistica will work with its current customer base of optical system vendors to deliver the portfolio of products to web-scale customers and wireless carriers.

Code-named Bernoulli, the edge optical switching platform is based on the established DLP® technology from Texas Instruments, and can be customized in firmware and optical configuration to address a multitude of applications. The ultra-low-profile modules are designed to physically resemble the industry standard CFP2 form-factor developed for optical transceivers, and will perform the functions of wavelength switching, power management and flexible spectral control.

Next-generation architectures for web-centric optical system deployments are migrating toward a disaggregated approach. The Bernoulli platform is perfectly suited to provide functions such as Optical Channel Monitoring (OCM), Wavelength Selective Switching (WSS), and Dynamic Gain Equalization (DGE) of optical amplifiers, all of which can be controlled in a grid-flexible manner, as required for optimal spectrum allocation in emerging Software Defined Networks (SDN). The first Bernoulli products are being delivered for In Line Amplifier (ILA) deployments and can be easily accommodated in the 1RU units desired by the end-customers. The same hardware platform can be rewired to deliver a combination of OCM and WSS functions for other Open Line System (OLS) configurations.

“The move toward disaggregation has led to an added layer of demands on wavelength management products. We have created compact multi-function units which meet the price-performance needs of open line systems,” remarked Ashish Vengsarkar, CEO of Nistica. “While data center interconnect is the first use-case, we expect a significant demand in wireless front-haul networks as 5G deployments take off in the next few years.”

Andrew Schmitt, Lead Analyst at Cignal AI, elaborated further. “The demands of 5G wireless services require high capacity wavelengths at the edge of the network and will require operators to refresh existing front-haul infrastructure. Network operators will use this opportunity to install systems and platforms that allow them to manage and monitor these wavelengths. Nistica’s Bernoulli platform is uniquely suited to address the challenging power management and protection requirements in these applications.”

Nistica will demonstrate the operation of the Bernoulli platform in Booth # 6623 at the Optical Fiber Communications conference (OFC) being held in San Diego, California, March 13 – 15, 2017. Also at OFC, Nistica CTO, Dr. Thomas Strasser, will teach a short course on ROADM Technologies and Network Applications (SC261) and speak at the Flexible Grid Deployment Panel Session.

About Nistica

Nistica is a global supplier of agile optical modules and subsystems that simplify, automate and make affordable the delivery of high-bandwidth applications, enabling systems providers across multiple industries to meet ever-increasing demand. Founded in January 2005, Nistica is now a subsidiary of Fujikura, partnering with Texas Instruments, NTT Electronics and other industry leaders to expand its global reach and scale production. For more information, visit the company website, www.nistica.com

Contact:

Nistica
Rich Rainboth
+1 908-566-1333
media@nistica.com