



NEWS RELEASE

# ADTRAN Optics Reset the Economics of FTTH Service Delivery

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Nx10G tunable optics network can save providers up to 80 percent of the capital and operational costs as they look to scale NG-PON2 deployments

HUNTSVILLE, Ala.--(BUSINESS WIRE)--Aug. 10, 2016-- ADTRAN®, Inc., (NASDAQ:ADTN), a leading provider of next-generation open networking solutions, today announced its first Subscriber Edge Tunable (SET) optical transceivers, the latest innovation from ADTRAN Labs. ADTRAN's entry into this new category of tunable optics addresses several key technology and innovation gaps that have hindered market development for multi-wavelength access networks. SET optics will be a key enabling technology for ADTRAN's NG-PON2 solution, facilitating the delivery of highly elastic fiber services right to the customer premises equipment (CPE). Developed by ADTRAN Labs, this most recent innovation will enable access providers to cost-effectively and efficiently leverage Nx10G NG-PON2 to deliver even higher speed FTTH services to homes and business.

SET optics provide an essential building block for the wavelength agile access network of the future, providing the dynamic network capabilities needed to underpin the provider's creation and deployment of user-driven service delivery models. By providing fast wavelength switching times and access-friendly cost points, SET optics will remove the operational and economic sensitivities that have previously limited tunable optics to transport applications. When paired with software-defined access to allow dynamic control, SET optics and NG-PON2 provide a highly dynamic physical layer to extend the programmable network to optical levels.

"With our new SET optical transceivers, ADTRAN Labs is addressing the most significant challenge for the economics of NG-PON2 deployments. The future value of the dynamic and extensible capabilities of NG-PON2 are unmatched

and will serve the needs of access network providers worldwide for many years,” said Kevin Schneider, ADTRAN’s chief technology officer. “The capability to design our own optical transceivers allows ADTRAN Labs to focus on the needs of our customers and bring innovative enabling technology to market to enable their business cases.”

As Internet traffic levels rise and service providers look to support business and enterprise services over a unified access network, the ability to add capacity on the fly has become a network imperative. The multi-wavelength capability of NG-PON2, enabled by SET optics, helps access network operators pull more capacity out of their existing fiber access plants, providing a dispatch-free upgrade path when the existing PON capacity has become exhausted. Additionally, combining SDN-enabled capacity management with ADTRAN’s SET optics’ sub-50ms wavelength switchover times enables NG-PON2 networks to ensure the highest level of application quality of experience in a user-defined service structure and deliver resilient, SLA-based services. These benefits are realized by allowing the automatic offload of traffic from congested or out of service wavelengths and OLT ports to alternative wavelengths on less utilized network assets.

“Today, service providers are looking for highly scalable, programmable service delivery models. It is imperative that their current fiber network investment cost-effectively supports the next wave of multi-gigabit growth spurred by emerging user-driven services and applications,” said Julie Kunstler, principal analyst at Ovum. “ADTRAN’s subscriber edge tunable optics solution supports the cost-efficient expansion and unbundling of the FTTx architecture, accelerating the rollout of 10G residential and 10G and beyond enterprise services through disruptive ONT and CPE pricing.”

SET optics is one of several optical technology choices in ADTRAN’s unique access portfolio, providing flexible optics possibilities, including both fixed-wavelength and SET options for 10G ONUs to meet the needs of all access network operators.

## About ADTRAN

ADTRAN, Inc. is a leading global provider of networking and communications equipment. ADTRAN’s products enable voice, data, video and Internet communications across a variety of network infrastructures. ADTRAN solutions are currently in use by service providers, private enterprises, government organizations, and millions of individual users worldwide. For more information, please visit [www.adtran.com](http://www.adtran.com).

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