

**LAMBDA CROSSING LTD.**

**Address:** 3 Shoham St., Caesarea Industrial Park  
P.O.Box 3028  
Caesarea 38900 Israel

**Company phone:** +972 (0)4-6177600  
**Company Fax:** +972 (0)4-6370489  
**Contact EMail:** moti@lambdax.com

**Website:** www.lambdax.com

**Year established:** 1999

**Contact person:** Dr. Moti Margalit, CTO

**Type:** Start-up company  
**Ownership:** Private

**Core Business:**

Optical wavelength switching and routing modules.

**Total number of employees:** 50

**Scientists and engineers:** 35

**Overview:**

LAMBDA CROSSING LTD. was founded in 1999 for the purpose of developing silicon-based optical components for advanced communications systems. LAMBDA CROSSING has created a new class of integrated tunable optical components. Using time tested materials, VLSI compatible technology and state of the art simulation capabilities; LAMBDA CROSSING has built the next generation planar lightwave platform (PLC). This platform provides for dramatic size reduction of optical circuits and is specifically optimized for tunable filters. In addition to filters, optical elements such as switches, detectors and lasers can be integrated using the same platform, resulting in a small form factor and a highly integrated optical module. The LAMBDA CROSSING platform is aggressively protected by patents, which cover the material definition, device concepts and architectures as well as numerous applications.

The core technology of LAMBDA CROSSING products is a unique optical platform, which dramatically extends the capabilities of existing planar lightwave circuit optical chips. Based on unique design methodologies, and realized using a manufacturing process perfected by the semiconductor industry, the LAMBDA CROSSING chips offer unprecedented integration capabilities, device density and functional scope.

One of the unique key optical elements in the device architecture is the tunable filter. The LAMBDA CROSSING tunable filter, which can be further integrated with additional optical and electro-optical elements, permits a wide integration platform that addresses all the required optical functionality at chip level in a compact planar structure. The optical chip is batch fabricated and volume production on 6" wafers can be rapidly implemented at the LAMBDA CROSSING optical FAB.

**Products:**

TDF - Tunable Data Filter

TDF is a family of tunable filters designed for data rates of 10 Gbps and for operation in 25 and 50 GHz spacing.

LambdaFlow - Tunable optical Add Drop Multiplexer (OADM)

LambdaFlow is a 40 channel tunable OADM with 4 Add/Drop ports. The OADM is tunable in the C band and is capable of adding and dropping data at a rate of 10 Gbps.