

## PRESS RELEASE

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### **MergeOptics and Cube Optics partner on XENPAK and X2**

– LX4 XENPAK Transceiver Manufactured in Volumes –

**Berlin and Mainz, Germany- June 8, 2004** – MergeOptics, a leading developer of highly integrated, low power fiber optic subsystems, and Cube Optics, manufacturer of miniaturized fiber-optic components, today announced they have successfully partnered in the development and commercialization of a XENPAK MSA 10Gbase-LX4 transceiver. After a successful prototype release earlier this year, the XENPAK LX4 transponder has now been transferred into full production, making it one of the first IEEE 802.3 standards compliant products to be made available in volume quantities. Both companies are committed to strengthen their development partnership and plan to release additional products later this year.

“We have seen the immediate need of high quality and cost effective LX4 XENPAK transponders specifically to guarantee the use of existing legacy fiber. As we collaborated with CUBO we realised our strengths were perfectly synergized and as partners, we could respond very quickly to this market demand. CUBO’s technology and MergeOptics’ OptoPack™ represent the latest advancements in integration and power consumption technologies and coalesce well together to maximize the advantages of XENPAK and X2 LX4 transponders ” said MergeOptics’ President and CEO Dag Neumeuer.

“The cooperation with MergeOptics was a perfect fit as they brought in their expertise in active devices and we concentrated on the passives as well as the miniaturization aspects of the packaging. Due to this great success we

are continuing our cooperation on the development of the next-generation X2 transceiver. I am sure, we will be just as fast and successful as before.” states CUBO’s CEO Thomas Paatzsch.

The XENPAK transceiver is based on MergeOptics’ proprietary OptoPack technology and CUBO’s miniaturized LX4-multiplexer modules. The OptoPack TOSA features 1310nm DFB laser diodes, resulting in a high performance package with the combined advantages of proven edge emitter technology, efficient power requirements, and lower operational and development costs. The OptoPack ROSA comprises of a PIN photodiode along with a TIA for multi mode applications. CUBO enabled the space constraint transceiver packaging with a further miniaturized LX4 multiplexer. The novel design contains a 4 channel single mode multiplexer and a 4 channel multi mode demultiplexer in a housing of just 16 x 18.5 x 9 mm<sup>3</sup>.

**About MergeOptics GmbH:**

MergeOptics GmbH, was founded in Germany, in September 2000. They develop highly integrated components for the rapidly growing high-speed fiber optic data transfer market. The company integrates optical components (lasers, modulators and photo diodes) with high-frequency electrical circuits to create compact modules that operate with industry standard optical and electrical interfaces. MergeOptics’ business objective is to specialize in high speed optical products that are world-class for both integration and performance. MergeOptics has partnerships with several leading German universities and research facilities, including the prestigious Heinrich Hertz Institute in Berlin, Germany.

**About Cube Optics AG:**

Cube Optics AG (CUBO), established in August 2000 and based in Mainz, Germany, develops, manufactures and markets miniaturized fiber-optic components for use in data and telecommunications systems and is targeting the market for medium-range networks (Metro Core, Metro Access, Metro Enterprise, CATV, 3G-Telephony, Datacomm). The basis of CUBO’s components is an innovative manufacturing process, protected by registered patents, which makes it possible to set up a fully-automated production for small, high-quality components, in large numbers, and at favorable prices. Cube Optics’ components feature dimensions being up to 100times smaller than standard devices and various optical functions may be integrated on a modular basis. This enables CUBO’s clients to solve the tough space constraints of the Metro Access and Metro Core systems.

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