



PRESS RELEASE
For immediate publication

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July 10, 2008

**Cube Optics AG Releases First LAN WDM Grid Mux
Miniaturized Mux for 100Gbps multi-lambda Transceivers**

Mainz, Germany – July 10, 2008 – Cube Optics has successfully manufactured world's first LAN WDM grid passive optical multiplexers and demonstrated their excellent performance.

Scoping with constantly increasing bandwidth in LAN, SAN and Metro applications network operators, data centers, enterprises and ISPs are demanding for higher speed optical interfaces. To meet those needs the IEEE high speed study group is in the process to set new standards for 100Gbps fiber-optical transceivers. As for those high speed data rates a serial transport even over relatively short distances (10 / 40km) is not possible with state of the art electronics. The transceivers will need to optically multiplex several lower bit streams. The new standard for pluggable transceivers is anticipated to multiplex 4 times 25Gbps optically to form a 100Gbps transmission. To enable the integration of 4 laser diodes, 4 PIN detectors with the according multiplexer and demultiplexer into a space constraint pluggable transceiver, miniaturized multiplexers are the enabling factor. The wavelengths which will be used are summarized as the LAN WDM grid, an 800GHz grid in the 1310nm band.

Cube Optics AG has now build the first multiplexers in the so-called "zig-zag" direct-bounce design which enables the needed miniaturized size and the 800GHz LAN WDM grid. It features 400GHz pass bands for the center wavelengths of 1295.56 / 1300.05 /1304.58 and 1309.14nm. The insertion loss does not exceed 1.5dB while adjacent channel isolation is clearly above 30dB.

The compact, direct-bounce multiplexers set-up is CUBO's expertise and its multiplexers following this design are shipped in large volumes since years to many customers. CUBO demonstrated now that this design is directly



transferable from the existing ITU standardized CWDM grid to the much narrower LAN WDM.

“The design, set-up and assembly of the first LAN WDM grid muxes was realized in only eight weeks and we are very happy that already at the first try we could proof an outstanding performance”, commented Dr. Thomas Paatzsch, Cube Optics’ COO.

About Cube Optics

Cube Optics sells a family of ultra-compact optical components, modules and solutions tailored to the demands of the access network. The Company’s innovative active/passive optical packaging platform enables it to provide outside-plant Telcordia approved, bandwidth enhancing solutions at compelling price points. This ultra-compact packaging platform leverages advanced micro-injection molding techniques and enables network operators to realize low-cost, high performance architectures for both large and small network deployments and legacy infrastructure upgrades. Cube Optics’ products have been implemented in a wide variety of applications including local loop unbundling, HFC capacity upgrades, FTTH roll-outs as well as in equipment for the test and measurement of access networks. The Company is based in Mainz, Germany.

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