

**PRESS RELEASE**  
**For immediate publication**

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April 28, 2008

## **Cube Optics Deploys Miniature Wavelength Management Modules for Outside Plant PON/FTTx in Europe**

**Mainz, Germany – April 28, 2008** – Cube Optics AG of Mainz, Germany has released its Uncontrolled Environment specified line of miniature wavelength management modules. Cube Optics` components and modules excel where small form factor, simple and cost-effective integration and high reliability are critical to realizing outside plant deployable PON/FTTx architectures.

In accordance with the Telcordia GR1221 standard these rugged ITU Coarse Wavelength Division Multiplexing (CWDM) components have already been deployed in FTTX networks in both Europe and North America for many months. All performance results from the field confirm excellent operating endurance from -40°C to +85°C. The detailed report describing the Telcordia compliant temperature cycling, storage, humidity, shock, vibration and cable retention testing is available from Cube Optics upon request.

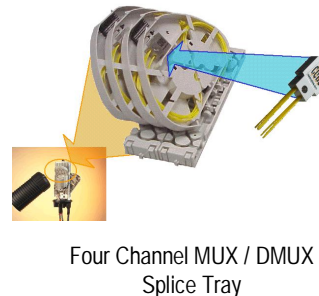
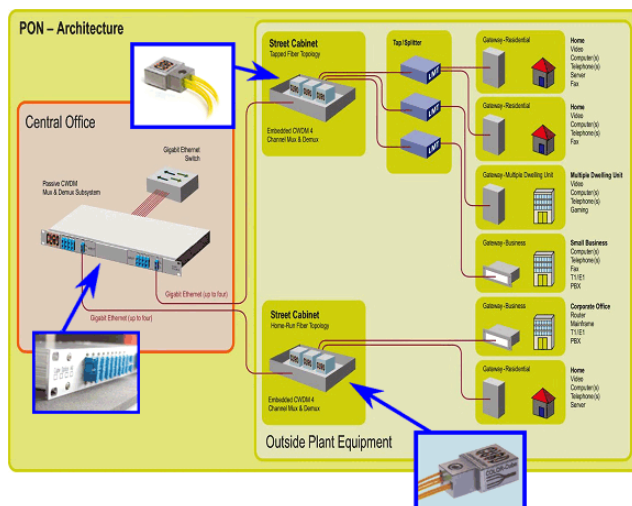
Cube Optics is an established supplier to telecom and datacom top Carriers and a certified vendor to OEMs serving telecom, datacom, security, fiber sensing, medical and test and measurement markets. These miniature wavelength management products are routinely applied to distributed fiber temperature sensing, hazard detection and avoidance, video security surveillance, natural resource detection and monitoring and as well as certain defense uses.

The performance of the new RoHS compliant product line is outstanding: insertion loss for an eight wavelength (channel) module from -20C to +85C is typically 1.6 dB with corresponding link loss of less than 2.9 dB promoting and enhancing long reach applications. PON architectures inherently enable cost efficient analog CATV overlay capability on the same fiber pair and the Cube Optics line of wavelength management modules meets and exceeds the required isolation between CATV and data of 70 dB and beyond. Channel uniformity across eight wavelengths with 20 nm spacing is typically better than 0.2 dB. This outstanding uniformity enables utmost network architecture flexibility and cannot be achieved with classical MUX/DEMUX solutions.



Outside Plant level qualification permits the Cube Optics modules and sub-systems to be installed in metro edge networks supporting various broadband applications. In the metro edge, equipment is typically housed in outdoor enclosures relatively near Central Offices and Head Ends. Precisely these links benefit from CWDM's capacity-multiplying capabilities as demand for triple play and other new bandwidth hungry services grow. The Cube Optics` CWDM modules are available in 4 and 8 channel variations with and without auxiliary taps, test ports or express channels addressing the entire 18 ITU wavelengths specified under ITU norms. The ultra-compact and adaptable optical design enables factory configurable wavelength and port management permitting the integration of CWDM into virtually all major brands of infrastructure equipment including splice and mounting trays for curb-side equipment racks, fiber cassettes for curb-side pedestals, pole-mounted enclosures and buried fiber distribution points.

Cube Optics` components and modules excel where small form factor, simple and cost-effective integration and high reliability are critical to realizing outside plant deployable CWDM architectures (MUX, DEMUX and / or OADM) optimized for space-constrained enclosures where mounting and fiber management may become extremely limited.



High Density Passive CWDM Modules Deployed in PON Application

For more information visit us from May 27 – 29, 2008 at  
**ANGA Cable 2008**  
in Köln, Germany, Booth K11 (Anedis)

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