

## **MSA Enables Multiple Vendors to Produce 10 Gbit/s Pluggable Modules Based on a Unified Standard**

**TOKYO - Jan. 17, 2006** - Leading optical manufacturers; Avanex Corp., CyOptics, Inc., Eudyna Devices Inc., Mitsubishi Electric Corp., Oki Electric Industry Co., Ltd., Opnext, Inc. and Sumitomo Electric Industries, Ltd., today announced the release of new common specifications for optical devices including SC connector, one of a kind optical connectors, as the interface, based on a 10 Gbit/s Miniature Device Multi-Source Agreement (XMD-MSA). The XMD-MSA specifications are designed for applications from short-to-long reach transmission functions.

Specifications established by the XMD-MSA enables the use of optical devices from multiple suppliers. The XMD-MSA has been created to establish compatible sources of 10 Gbit/s Transmitter Optical Sub-Assembly (TOSA) and Receiver Optical Sub- Assembly (ROSA) devices embedded into the 10 Gbit/s MSA modules, which has been designed for use in large capacity network and data storage systems. This XMD-MSA specification covers optical devices that comply with 10 Gbit/s interface standards, including 10 Gigabit Ethernet, 10 Gigabit Fiber Channel and SONET OC-192.

The newly available XMD-MSA specifications details the optical devices with SC connector interface, in addition to the existing specifications pertaining to the TOSA and ROSA devices embedded into 10 Gbit/s XFP modules. The XMD-MSA specifications encompass all 10 Gbit/s pluggable modules; including XFP modules, XENPAK modules, X2 modules and XPAK modules.

The specifications for interchangeable TOSA/ROSA devices include:

- Common Mechanical Dimensions including optical connector interface that determines the design of the 10 Gbit/s pluggable modules' optical head
- Common electrical interface standards and the method to connect into pluggable module circuit using flexible printed circuit (FPC)
- Common optical and electrical characteristics

Prior to this announcement, the MSA committee released a new revision of the TOSA/ROSA specifications issued in October, 2004.

New specifications for the MSA can be available from the following XMD-MSA members.

### **About Sumitomo Electric Industries, Ltd.**

Sumitomo Electric Industries, Ltd. (TSE: 5802) designs, manufactures and sells optical fiber, cable and components, advanced electronic devices, and automotive parts. Through a successful strategy of research and diversification, SEI has become one of the world's leading companies at the forefront of the revolution in information and communications. The company has operations around the world in more than 25 countries and employs 104,000 people. SEI reported group net sales of 1,740 billion yen for the year ended March 2005. [www.sei.co.jp](http://www.sei.co.jp)