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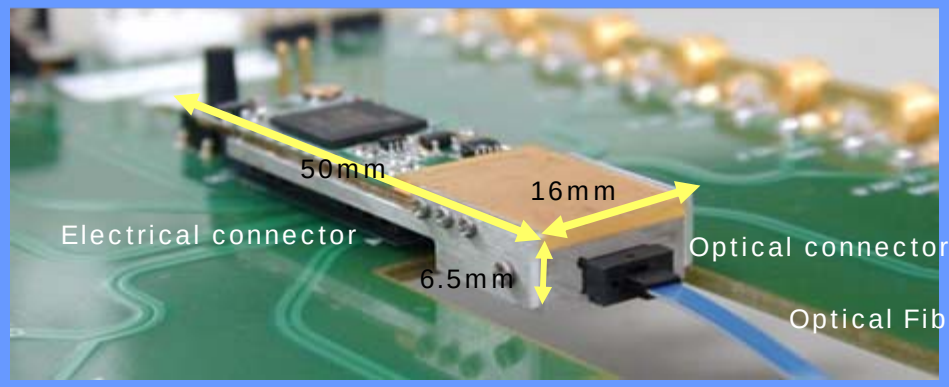
Development of a slim 40-Gbps Optical Transceiver
- 6.5mm in height with connector, enabling high density mounting -



Prototype 6.5mm high 40 Gbps Optical Transceiver

The Central Research Laboratory of Hitachi, Ltd., has developed a slim optical transceiver which can be used to connect optical fibers between routers and transmission equipment located within and between building. 100 meter error-free 40 gigabit per second (Gbps) transmissions were successfully conducted with a prototype optical transceiver. By applying the technology developed it will become possible to increase the number of optical transceivers mounted in a equipment, thus contributing to the achievement of increased transmission capacity and speed.

Research results relating to this technology will be presented at the 2006 Society Conferences of the Institute of Electronics, Information and Communication Engineers (IEICE) to be held at Kanazawa University in Ishikawa, Japan, from 19th - 22nd September, and the European Conference on Optical Communication 2006 (ECOC 2006) to be held in Cannes, France, from 24th -28th September. This work was partly supported by the National Institute of Information and Communications Technology of Japan.