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BRIGHT IDEAS | **b**

## Transceivers



OneChip Photonics has introduced a family of monolithic photonic integrated circuit-based Ethernet passive optical network transceivers for optical line terminals (OLTs) and optical network units that are deployed at service provider central offices and at customer premises, respectively. The transceivers help system providers and carriers deploy fiber-to-the-premises less expensively and meet demand for high-bandwidth voice, data and video services. The OLT devices provide a 1.25- or 2.5-Gb/s downstream and a 1.25- or 2.5-Gb/s upstream data link in a single fiber, using a 1490-nm optical wavelength continuous-mode transmitter and a 1310-nm optical wavelength burst-mode receiver. All of the functions required for an optical transceiver are integrated onto a single indium phosphide-based chip.

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