Abstract

In this paper, a low complexity up to 200-Gb/s is analyzed over a 38-km standard single mode fiber transmission system in the 1310-nm wavelength domain. The system is based exclusively on semiconductor component without any form of dispersion compensation. The results showed that the 1310-nm wavelength domain can support low cost and low complexity high speed transmission.

**Index Terms**

Computer Science Communication Systems

**Keywords**

Optical fiber communication electro absorption modulator semiconductor optical amplifier wavelength division multiplexing