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