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.
1310 nm transmission in modern networks?


**Index Terms**

Computer Science

Communication Systems

**Keywords**

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