Abstract

The market demand for providing higher bit rate within the access network has raised the requirement of deploying the Ethernet Passive Optical Network (EPON) to replace the old technology based on Digital Subscriber Line (DSL) and Cable Modem (CM). This paper presents the design, simulation and implementation of the Simplified Ethernet Medium access Controller (MAC) together with the Point-To-Multi-Point (P2MP) emulation mechanism that can be used for Optical Network Unit (ONU) devices.

References

- J. S. Shaik and N. Patil, "FTTH deployment options for telecom operators,"
Index Terms

Computer Science

Networks

Keywords

Ethernet Passive Optical Network  Ethernet-In-The-First-Mile  IEEE 802. 3ah
Fiber-To-The-Home

Medium Access Controller

Point-To-Multi-Point Emulation

Optical Network Unit