

Design of FTTH network using GPON technology

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Abstract: In the context of increasing data transmission demand, this topic focuses on designing a Fiber To The Home (FTTH) network based on Gigabit Passive Optical Network (GPON) technology. The goal is to build an efficient and optimized system to serve diverse information transmission needs. The research method combines theory with experimentation to evaluate the performance of GPON in FTTH applications. The topic is expected to contribute to the development of telecommunications infrastructure while providing solutions for network operators and telecommunications enterprises.

Keywords: FTTH, Gigabit Passive Optical Network (GPON), transmission network design