

Design of FTTx network based on GPON technology for the planned area of Y Yen District, Nam Dinh

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Abstract: This topic aims to analyze and design an FTTx network based on GPON (Gigabit Passive Optical Network) technology for the planned area of Y Yen District, Nam Dinh. Through research, it proposes solutions to optimize the telecommunications infrastructure structure, improve the quality of high-speed data transmission services, and reduce deployment costs. The method applies a comprehensive approach combining telecommunications network theory and project experimentation. Expected results will contribute to upgrading the optical transmission system, meeting the local socio-economic development needs.

Keywords: FTTx, GPON, Planning area, Nam Dinh, Network upgrade