

**GPON-FTTH NETWORK ARCHITECTURE AND DEPLOYMENT FOR
RESIDENTIAL CONDOMINIUM**

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The Optical fiber-based network also known as Fiber To The Home (FTTH) that is the future solution for providing broadband service such as voice, data and video (Triple play). This paper addresses the concept and deployment of Fiber to the Home (FTTH) for residential condominium based on the ITU-T G.984 standard Gigabit passive optical network (GPON) to reach a capacity of the maximum subscribers and more effectively accommodate high bandwidth for triple play services.

Key words: *Optical fiber; GPON; FTTH; Passive Optical Network; Triple play service.*