

In-home broadband: Technologies for in-home broadband

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Abstracts

The outbreak of the pandemic has led to an inevitable surge in the use of digital technologies and placed broadband networks as a key enabler for various digital applications in home, including teleconference, online education, 4K / 8K ultra-high definition video, VR / AR games, etc.

Since then, the typical requirements of the connected home have evolved. An 8K video stream requires at least 150 Mbps of bandwidth, which is four times more than 4K. Applications such as live streaming, online classes, and live streaming require very low latency, typically 50 milliseconds or less. In addition, home broadband connections need to be capable of supporting multi-service concurrent scenarios. High-quality Internet has become an indispensable part of people's lives, work, and entertainment.

Knowing that fiber optic cable is the most preferred transmission medium in networks for its superior bandwidth, faster speed, and enhanced reliability, this report aims at providing a view of how fiber to the room (FTTR) technology can become a solution for gigabit connectivity at home. FTTR, which extends fiber connectivity from the "last mile" to the "last meter", can offer to customers a premium full fiber connection, enabling them to meet the network requirements of various new and future home applications.

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