

Lantech Industrial Giga Managed Switches Helped to Construct the CATV Hybrid System in South America

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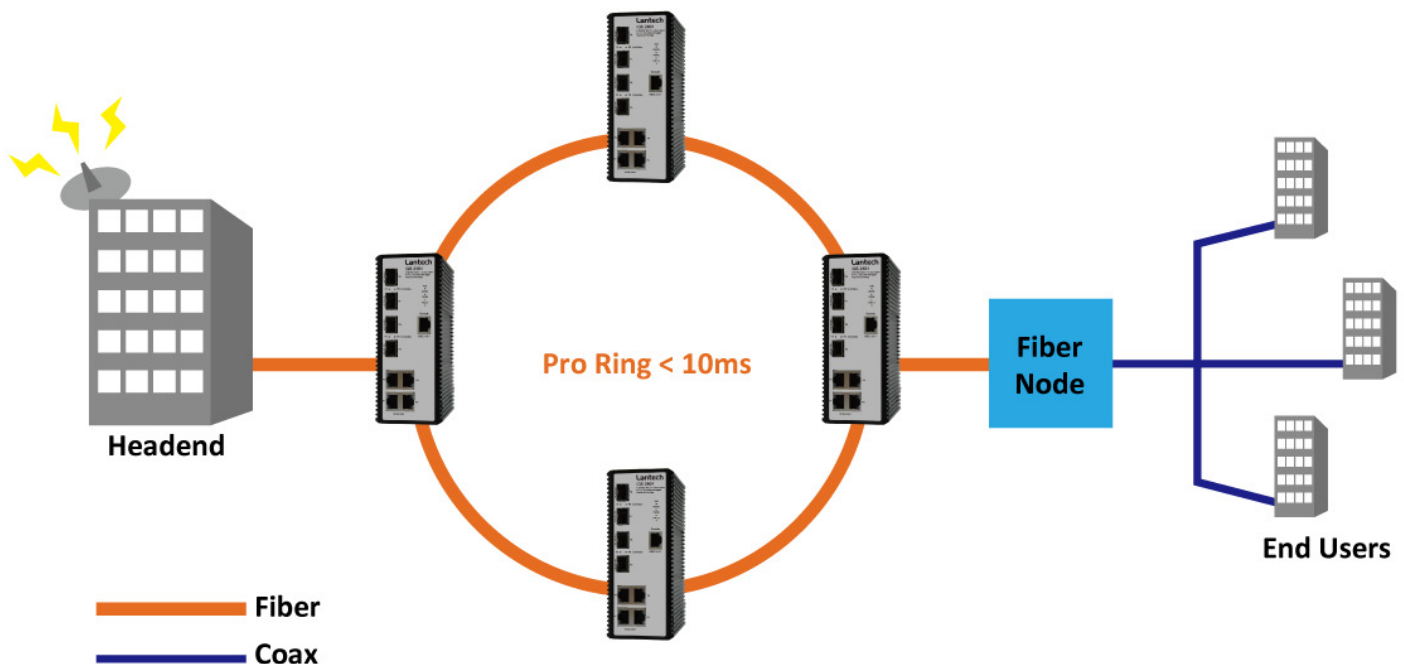
CATV hybrid system, also called hybrid fiber coax (HFC) system, uses fiber optic cable for the head end and feeder distribution system and coax for the customers end connection. It provides both Internet access ability and TV signal to every user's home. The fiber portion allows long distance data transmission with high capacity, helps to construct high-speed backbone data interconnection lines.

Recently, Lantech industrial switches are adopted to play an important role in the CATV project in South American country. The company P constructs a CATV hybrid system in the capital city, where the climate is extremely changed during seasons. The lowest temperature may reach -15°C with snow in winter and reach 30°C in summer's rainy season.



The project uses Lantech IGS-2404-E, the full giga industrial managed switch to be placed on top of electrical pole where connects fiber ring in FTTC (Fiber to the Curb) for secure and high bandwidth infrastructure then to transmit by coaxial cables for Internet, VOIP and VOD services. The IGS-2404-E model can sustain harsh environment at the working temperature between -40 to 75°C for long life-span, so it is most suitable model for full Gigabit speed to be placed inside the complete sealed box on top of electrical pole.

The following topology shows the CATV hybrid system that uses a combination of fiber optic cable for the core distribution and coaxial cable for the local connection. Lantech IGS-2404-E features the powerful Pro-Ring system to connect fiber cables in a ring around the cable television service area so that if a network link down occurs, the signal will automatically be available from the backup path within 10ms. The fiber cables end into fiber nodes that convert the optical signals into RF television signals. With this system and Lantech products' fully managed functions, the service provider is able to monitor and control remotely.



Case Study