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Mr. Huang,
Project Manager of Fujian Hongda

Longyan Municipal Government Supports E-government Systems with Secure Cabling Infrastructure from CommScope

SYSTIMAX® FTP Category 6 Solution and LazrSPEED® Solution connect 15,000 outlets at new administrative facility for Fujian Province

CommScope provides cost effective copper and fiber solutions for the network physical layer in one of China's municipal administration centers. As well as supporting systems serving a population close to 2.8 million, the installation delivers guaranteed connectivity performance for a large-scale intelligent building installation.

Longyan, a major administrative center of China's Fujian Province, has a population of 2.76 million. At the heart of the historic city, its municipal government is building a new, 100,000m² administrative facility that will be among the Province's largest intelligent buildings.

Network infrastructure, connecting 15,000 outlets throughout the 14-floor main block and its two five-floor wings, will play a key part in the building's advanced systems. These systems include on-line e-government applications as well as intelligent building equipment.

In its search for the best network physical layer solution, the municipal government considered all the major suppliers. After careful assessment of the alternatives, the government's project team chose solutions from CommScope's SYSTIMAX portfolio. These included the SYSTIMAX FTP (Foiled Twisted Pair) and UTP (Unshielded Twisted Pair) Category 6 copper solutions, and the LazrSPEED fiber solution.

The 1 Gb/s SYSTIMAX FTP and UTP solutions both comfortably exceed specifications of the Category 6 and Class E connectivity standards. Components are precisely engineered with matched transmission characteristics, maximizing end-to-end performance and reliability.

Even under worst case conditions, the SYSTIMAX copper solutions exceed specifications of the Category 6 cabling standard in a 100m, four-connector channel. The FTP solution also meets all the municipal government's security and information confidentiality requirements.

The LazrSPEED 150 Solution, chosen for longer distance links, supports transmission at 1 Gb/s up to 800 meters. The laser optimized, multimode LazrSPEED fiber gives performance in excess of the OM3 standard without the need for expensive multimode electronics. This makes it a cost effective solution for network risers and backbone connections spanning the large Longyan administrative building complex.

To design, plan and manage the project, the Longyan municipal government chose CommScope BusinessPartner, Fujian Hongda Electronic Technology Development Co., Ltd. Using a 50-strong team of technicians, Fujian Hongda installed more than 1000km of Category 6 copper cabling.

"This is a large and complex project," said Mr. Huang, Project Manager of Fujian Hongda. "By using connectivity solutions from CommScope, we remove many concerns about compatibility, reliability and end-to-end performance. The cable and components are designed to work together giving the highest performance and reliability. The complete solutions have been designed and tested using CommScope's world leading technology."

The SYSTIMAX copper cabling in horizontal connections links with 60 telecommunication and computer rooms throughout the building. These rooms are then connected together via 56km LazrSPEED fiber cabling, giving end-to-end data transmission speeds of up to 1Gb/s.

The complete cabling infrastructure supports a wide variety of systems as well as computing and office automation applications. These other systems include ones for building management, security, access control, video conferencing, public address and information display.

All the SYSTIMAX solutions in the Longyan project benefit from CommScope's four-tier technical support, which includes highly trained staff at its local BusinessPartner. This high level of backup, together with CommScope's industry leading guarantees, were key factors in the municipal government's choice of SYSTIMAX infrastructure.

The CommScope 20-year warranty and applications assurances cover end-to-end connections. The application assurances, for all networking applications conforming to international standards, are backed by extensive verification work at the world renowned CommScope Labs.

"The Longyan municipal government depends on network infrastructure for many critical aspects of its work in the new administrative building," said Charles Wong, Managing Director of Greater China, CommScope Enterprise Solution Division. "With our BusinessPartner in Fujian, we were able to provide precisely the connectivity it needed to implement the network physical layer in a very cost effective manner."



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