

SYSTIMAX®

SOLUTIONS

Cabling for Every Need at College Campus in China

SYSTIMAX® Structured Cabling Portfolio meets administrative, academic and student requirements at Shunde Vocational and Technical College

Shunde, 127 km north of Hong Kong in the fast growing Pearl River industrial area, is famous for production of electrical appliances. To satisfy strong demand for skilled workers in this and other industries, the city is spending US\$7million on its Vocational and Technical College. A key part of this investment is an integrated cabling infrastructure to provide high performance connections suited to each of the site's 20 buildings.

After studying cabling alternatives including mixed vendor systems, the college chose a combination of four SYSTIMAX products for its new infrastructure. In the main administrative and academic buildings, GigaSPEED® XL7 Unshielded Twisted Pair (UTP) copper cabling comfortably supports the most demanding network applications. These include video and audio teaching facilities as well as advanced engineering software.

Student halls and other areas that do not need the full GigaSPEED Solution capability are equipped with the SYSTIMAX PowerSUM Solution. This UTP copper cabling has performance that substantially exceeds the Category 5e international cabling standard.

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capacity to support fast traffic growth," said Mr Wu Zhi Yong, Manager of the Data Network Center at Shunde College. "The comprehensive SYSTIMAX portfolio meets all these needs and gives us choice of cabling to suit a variety of applications."

The campus network is in a star configuration with the main equipment room on the computer center's third floor as its focal point. There are two outdoor backbone systems running in underground conduits between the buildings. In one, SYSTIMAX LazrSPEED® 12-core multimode fiber cables support 10-Gigabit Ethernet over distances up to 300 meters. The second backbone system uses OptiSPEED® 6-core, singlemode fiber to provide 10 Gb/s connections between points more than 300m apart. As with the SYSTIMAX copper solutions, the alternative fiber solutions allow the College to match cabling costs to performance requirements.

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"Bandwidth-intensive video and audio facilities play an important role at the college, so we need high performance communications both within and between the buildings," said Mr Wu. "SYSTIMAX Structured Connectivity Solutions (SCS) provide a seamless, integrated infrastructure that is superior to a mixed vendor solution. As our student body expands, these solutions will give us the speed, bandwidth and scalability we need to support rapid network traffic growth far into the future."

The project included installation of nearly 12,000 GigaSPEED and PowerSUM information outlets. These are able to support connections at 10 Mb/s, 100 Mb/s and 1000 Mb/s. The LazrSPEED backbone in the main campus area means that 1000 Mb/s channels can be supported over distances up to 1 km rather than the 500m maximum specified for most systems.

Across the site, there are also more than 1,400 LazrSPEED and OptiSPEED connections providing 10 Gb/s channels. The innovative LazrSPEED cable

together with compact, low-loss SYSTIMAX LC connectors provides this performance up to 300 meters without need for expensive electronics.

The contract to install all the data cabling was won by SYSTIMAX BusinessPartner, Dong Ruan Ltd of Shenyang. Working with College staff and SYSTIMAX SCS specialists, Dong Ruan designed the cabling infrastructure floor by floor to equip each with consistent, high-grade communications matched to its particular needs.

The company installed more than 300 kms of PowerSUM and 80 kms of GigaSPEED cable above the ceilings of works areas. For the backbones, they used 5 kms of SYSTIMAX LazrSPEED and OptiSPEED fiber. End-to-end connections were made via 47 intermediate distribution frames using a combination RJ45-type PATCHMAX® and 110 patching hardware.

Commenting on the project Mr Yang Qi, Sales Director, SYSTIMAX Solutions, South China, said, "With our BusinessPartner, we were able to meet the challenge of providing integrated cabling that added to the effectiveness of the campus in developing the skills needed in China today. We are pleased to have participated in creating this outstanding educational facility that will contribute a great deal to the future of Shunde and the whole region."

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