



## SYSTIMAX® Solutions

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**Mr. Deng**

Design Department Director,  
Guangzhou Administration Office  
of Major Public Construction Projects

## Strong Track Record Helps CommScope Win 21,000 Outlet Asian Games Infrastructure Contract

**Asia's biggest sporting event is connected via 1,100km of SYSTIMAX® GigaSPEED® XL copper cable and 150Km of LazrSPEED® and TeraSPEED® fiber**

The 16th Asian Games, incorporating 42 different sports, puts Guangzhou on the world map as a venue for major international events. Reliable, high performance networking is key to efficient operation of the Games' 70 sporting facilities, so the organizers turned to CommScope for their copper and fiber infrastructure.

The 16-day Asian Games, sponsored by the Olympic Council of Asia, is held every four years, midway between summer Olympics. With 53 separate facilities for competition and 17 for training, the 2010 event in Guangzhou, China is second only to the Beijing Olympics in its scale and complexity.

Guangzhou welcomed the opportunity to establish the city on the world stage as a venue for major events. To ensure the Games are a complete success, the City Government has invested heavily in its sports infrastructure and a central part of this is building high performance network infrastructure.

"We wanted our networks to combine high levels of performance with excellent reliability," said Mr. Deng, Design Department Director, Guangzhou Administration Office of Major Public Construction Projects. "As well as supporting the event's data center, the network also connects media services, security systems and access control across many facilities. With all these critical services depending on it, there was no room for compromise on network infrastructure."

When deciding on an infrastructure supplier, the organizers looked at the networks in other major facilities recently completed in China. As well as sports stadiums, these included airports and conference centers. They found that CommScope had the best record of success, and this was their choice of supplier for the 2010 Asian Games.

CommScope's SYSTIMAX portfolio could provide the reliable, high performance infrastructure required for the project. Specifications of the solutions exceed international standard, and they are designed to save time and space during installation.

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The Guangzhou Administration Office of Major Public Construction Projects took responsibility for designing, planning and managing the network installation. To complete the installation work they chose four local CommScope BusinessPartners. These were Guangdong Gloryview Technology, Guangdong Industrial Equipment Installation, Guangdong JITONG Information Development and GCI Science & Technology.

Together, the BusinessPartners assembled a team of 800 people to tackle the huge project. Their effort focused on building networks for five clusters of facilities. These were at Guangdong Olympic Sports Center and Tianhe Sports Center, Guangzhou University Town, the Asian Games City and Garden Hotel.

Since tens of thousands of spectators, athletes and officials would use these facilities, fire safety was paramount. To meet this requirement, CommScope supplied LSZH (Low Smoke, Zero Halogen), flame-retardant copper and fiber cabling conforming to the IEC 60332-3A standard.

The BusinessPartners' team installed more than 1,100km of the LSZH SYSTIMAX GigaSPEED XL copper solution. This cabling gives 1Gb/s performance from end-to-end in a 100m link with up to six connectors, comfortably exceeding requirements of the Category 6 standard.

In the network backbones, the team installed 150Km, of SYSTIMAX LazrSPEED® and TeraSPEED® fiber. Over distances up to 550 meters, the LazrSPEED multimode fiber solution provides 10Gb/s performance without need for expensive electronics. For longer connections, both inside and between buildings, the team used TeraSPEED singlemode fiber cabling.

The TeraSPEED solution uses zero water peak fiber that operates over the full 1280 to 1625nm wavelength range, supporting data transmission speeds of 10Gb/s and above. This gives it 50 percent more useable bandwidth than conventional singlemode fiber.

Completing the network infrastructure at 70 different facilities on time and on budget was a major challenge. In addition to deploying 800 people on the installation, the BusinessPartners worked closely with CommScope to ensure all the materials were delivered to schedule at the correct locations. Because all SYSTIMAX solutions can be delivered from stock, there were no shortages or waiting time.

"Building interconnected networks to serve many different facilities across a large area always demands very efficient material supply and installation – especially if deadlines are tight," said Laura Chen, Regional Sales Director of Greater China, CommScope Enterprise Solutions Division. "Working with our BusinessPartners, we met this challenge, enabling them to deliver an integrated end-to-end solution on time and on budget."



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