

SYSTIMAX®

SOLUTIONS

SYSTIMAX® Solutions for Asia's Biggest Exhibition Facility

Guangzhou International Exhibition Center uses high performance copper and fiber network infrastructure to offer world class communications

China's US\$480 million Guangzhou International Exhibition Center, the biggest of its type in Asia, is being equipped with SYSTIMAX® Structured Cabling Solutions (SCS). These will include GigaSPEED® copper cabling, providing performance exceeding Category 6 specifications for horizontal connections, and 10 Gb/s LazrSPEED® multimode fiber for backbones and risers.

When it opens in 2003 on a 700,000m² site at Pazhou in Haizhu district, the Exhibition Center will have 500,000m² of space on five levels. Its SYSTIMAX SCS infrastructure will serve 8,000 high quality exhibition spaces together with multi-purpose meeting rooms and halls for hosting conferences and festivals.

The aim is to make the Exhibition Center, which can host up to 30,000 guests, one of the world's leading exhibition and conference centers. This will also help increase the prestige and success of the Chinese Export Commodities Fair held bi-annually in Guangzhou.



"To meet exhibitors and delegates ever-increasing demand for quality telecommunications and Internet access, a high-performance, highly reliable integrated cabling system is essential," said Mr Jiang Wen Chao, equipment director of Guangzhou International Exhibition Center. "After an intensive screening process and technical evaluations, our managers and technical experts chose SYSTIMAX Solutions™ industry-leading copper and fiber cabling solutions to meet the requirement."

SYSTIMAX SCS were chosen to support intelligent building management systems as well as integrated voice, data and video applications. The copper and fiber cabling solutions will also provide the Center with an infrastructure platform that can support future development of global unified telecommunications.

The infrastructure, installed by SYSTIMAX BusinessPartner in South China, Guangzhou Auto Control Engineering Co. Ltd, will be among the most advanced ever built in China upon its completion in November 2002. The first phase includes 23,000 GigaSPEED copper information outlets, 2,000 SYSTIMAX OptiSPEED® singlemode fiber outlets and 2,000 LazrSPEED multimode fiber outlets.

The network will also incorporate 52,000 LC small form factor fiber-optic connectors and over 360 kilometers of fiber-optic cable. Every exhibition space has 12 color-coded GigaSPEED MGS400E modular information outlets and two fiber-to-desk outlets.

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This infrastructure not only handles 10 Gb/s applications, it can also support 10 Mb/s, 100 Mb/s, and 1 Gb/s applications. LazrSPEED connections operating at 1 Gb/s can reach up to 1000 meters, far exceeding the 275-meter effective reach typical of other multimode fiber-optic solutions. The new generation multimode fiber (NGMMF) standard published by TIA and ISO during the first quarter of 2002 was significantly influenced by the LazrSPEED Solution that supports 10 Gb/s up to 300 meters.

The SYSTIMAX GigaSPEED copper solution is guaranteed to meet or exceed the requirements of the Category 6 cabling standard. Recently the SYSTIMAX product portfolio was also endorsed with award certificates by both China State Bureau of Quality and Technical Supervision (CSBTS) and Ministry of Information Industry (MII).

"A cabling installation of the scale and complexity of the one at the Guangzhou International Exhibition Center is inevitably complex and demanding," said YANG Qi, Sales Director, SYSTIMAX Solutions, South China. "However, we have the solutions, skills and resources necessary to complete this record-breaking project according to the strict schedules that have been set."

The Guangzhou Center is the first in China to be installed completely with Category 6 cables, and it is the first to have UL standard optical fiber nonconductive plenum (OFNP) series cables. These are flame-resistant up to 800°C, satisfying the rigorous fire safety requirements of the Exhibition Center. The center is also the first to be installed with LazrSPEED 10G multimode fiber-optic cabling.

Three levels of cabling management will be used, featuring 120 Intermediate Distribution Frames (IDFs), 16 Building Distribution Frames (BDFs), and 1 Main Distribution Frame (MDF).

Every IDF is connected to a BDF with a 96-core SYSTIMAX OptiSPEED singlemode fiber cable as well as 48-core LazrSPEED cables. OptiSPEED cable with 48 cores and 12-core LazrSPEED cables are also used in the backbone, and more than 120Km of horizontal 2-core fiber-optic cable is used.

Horizontal copper connections are patched through color-coded SYSTIMAX PATCHMAX® patch panels. To complete the end-to-end SYSTIMAX Structured Cabling Solution, the Guangzhou Exhibition Center uses SYSTIMAX D8CM patch cords.

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