

SYSTIMAX®

SOLUTIONS

South China's Biggest Port Upgrades Government Information Infrastructure to Keep Pace with Trade

Huangpu District Municipal Government installs high performance SYSTIMAX® cabling along with SYSTIMAX iPatch® real-time infrastructure management



Serving China's booming Guangzhou province, Huangpu is the largest port in South China and third largest in the whole country. Located just 80 nautical miles from Hong Kong on an island in the Pearl River, it has 123 berths including five handling ships of 35,000 tonnes and above.

Infrastructure serving the city of over 200,000 people has been radically improved over recent years to handle increased movement of people and goods. To ensure municipal services improve to match its rapid economic growth, the district municipal government also upgraded network infrastructure at its headquarters. The aim of the project was to ensure that information flows quickly and reliably, so that administrative hold-ups don't restrict the flow of trade.

More than 2,000 new information outlets have been installed in the six-floor West Wing of the HQ building located in the Huangpu Economic and Technology Development Zone. These are connected via SYSTIMAX GigaSPEED® XL Unshielded Twisted Pair (UTP) copper cabling. This solution exceeds specifications of the Category 6 cabling standard and can easily support Gigabit Ethernet over four-connector and even six-connector, 100 m communications channels.

“ Demands on our networks are growing fast as trade in the region expands, so we need the best available cabling. The traffic in our network backbones is increasing every month, so we need a 10 Gb/s solution that will always perform to the highest levels. The industry-leading performance of the LazrSPEED Solution gives us confidence that there will be no bottlenecks in our network infrastructure during the years ahead. ”

Mr. Chen Jian Rong, Vice Director General of Development and Innovation Bureau, Huangpu District Municipal Government

The GigaSPEED XL cables link desktop outlets to the building's communications room via dropdowns from cable runs above the ceilings. In the communications room, the District Government decided to invest in an advanced patching solution to constantly monitor links supporting vital connections. To do this, they chose the innovative SYSTIMAX iPatch Real-time Infrastructure Management System.

The iPatch System allows network managers to monitor critical data connections via their desktop PC. It provides a secure physical layer environment by sending alarm messages via email or SNMP whenever there are unplanned changes to the network infrastructure. Added to this, the system makes moves, adds and changes (MAC) quicker and easier by automating creation of orders for patching activities.

To help technicians locate faults and complete patching assignments, the iPatch System gives them instructions on interactive displays that are part of iPatch System Controllers (called Rack Manager) that are mounted on the patching racks. As work is successfully completed the system informs the network manager of this.

“Many of the applications running on our network are critical to the quality of service we provide to businesses and citizens,” said Mr. Chen Jian Rong, Vice Director General of Development and Innovation Bureau, Huangpu District Municipal Government. “The iPatch System ensures that we always have full management control over these connections and that any issues are dealt with immediately. This minimizes disruption and ensures that vital systems are available when they are needed. ”

The Municipal Government's IT department chose the SYSTIMAX cabling and infrastructure management solutions after a careful study of all the alternatives. The deciding factors were the technical specifications and performance advantages of the SYSTIMAX products. These are designed as end-to-end solutions to give performance well above the minimum specifications of international standards.

To complement its GigaSPEED XL cabling, the IT Department chose SYSTIMAX LazrSPEED® multimode fiber cabling for network backbone connections. This makes use of laser optimized electronics to provide 10 Gb/s performance over distances up to 550 meters at less cost than singlemode fiber solutions. To achieve this reliably, LazrSPEED specifications comfortably exceed those in the OM3 fiber cabling standard.

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SYSTIMAX BusinessPartner, Gentle Technology Co., based in Guangzhou, was selected to design, plan and implement the new cabling. A six-strong team installed an infrastructure to support both voice and data applications throughout the building. They also installed the iPatch System with the latest Version 5.0 System Management software. This was the first such iPatch System in a Chinese government application.

Commenting on the project, Charles Wong, Managing Director of Greater China and Korea, SYSTIMAX® Solutions said: “Public sector organizations need network infrastructure that is as good as, or better than that in private enterprises. With SYSTIMAX Solutions™, Huangpu District Government has given its systems the connectivity they need to respond to ever growing demands. And the iPatch System gives it full management control over its vital infrastructure, allowing network managers to make moves, adds and changes quickly. It also lets network managers deal with unauthorized interference and other potential causes of downtime before these impact network users.”

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