



SYSTIMAX® Solutions

“We wanted highly reliable, world class solutions with performance better than international standards. We also wanted a supplier that offered top quality pre- and after-sales service.”

Mr. Gu Zong Gen
GM Assistant of SIP Science &
Technology Development Co., Ltd.

CommScope® Network Infrastructure for New Suzhou Industrial Park Data Center

China/Singapore cooperative project relies on SYSTIMAX® copper and fiber solutions to deliver comprehensive data services

Suzhou Industrial Park (SIP) supports growth of high technology industry in Jiangsu province with comprehensive, high performance data processing facilities. At the heart of these is an advanced data center connected via infrastructure built with SYSTIMAX GigaSPEED® XL, LazrSPEED® and TeraSPEED® solutions.

Suzhou Industrial Park Development Group Co., Ltd. was formed by a co-investment of consortia from China and Singapore. Its objective is to build and develop a location where a technology industry supply chain can grow and prosper.

A four-floor, 42,000 m2 data center is a key aspect of the SIP, meeting the communication and computing needs of companies on the site and beyond. Suzhou Guoke Comprehensive Data Center Company operates the data center and its services, and was also responsible for its construction.

The center connects software applications and delivers data processing and storage services as a platform for users to implement their own systems. As part of this, it establishes an open, standard interface to meet evolving customer requirements and simplify application integration.

All these services are underpinned by a network infrastructure using SYSTIMAX copper and fiber solutions. These were selected for their reliability and high performance, and because of the SYSTIMAX portfolio of solutions' record of success at SIP International Science Park before construction of the new data center. This made them the natural choice for data center connectivity and the cross-site network upgrade.

Commenting, Mr. Gu Zong Gen, GM Assistant of SIP Science & Technology Development Co., Ltd. said: "We wanted highly reliable, world class solutions with performance better than international standards. We also wanted a supplier that offered top quality pre- and aftersales service.

"An extra benefit of choosing SYSTIMAX infrastructure solutions is their space saving design. And, by using pre-terminated InstaPATCH® connections, we greatly reduced the time and cost of installation."

On completion of the data center systems, The Uptime Institute awarded them a T4 design rating certification, making the SIP center the first in Asia to receive this. SIP is also cooperating with telecommunications operators to further develop its systems. The aim is to create the largest disaster preparedness center, cloud service provider, and IT service outsourcing facility in the region

Design and planning work on the SIP data center and campus network was completed by Suzhou Industrial Park Design and Research Co., Ltd. Design partner, Shanghai International Business Machine Company also assisted in this phase of the project.

The network Installation phase was completed by CommScope BusinessPartner, Suzhou Guomao Engineering Systems Co. Ltd.. A team of up to 50 technicians and engineers worked on installing the SYSTIMAX GigaSPEED XL copper solution together with TeraSPEED and LazrSPEED fiber.

The SYSTIMAX TeraSPEED Solution, CommScope's high performance singlemode fiber solution, has 50 percent more usable bandwidth than conventional singlemode fiber. It does this by using the entire transmission wavelength window from 1280 to 1625 nanometers.

SYSTIMAX LazrSPEED laser optimized, multimode fiber is used in 10G connections of up to 550m. The performance of this solution exceeds the specification of the OM3 cabling standard, delivering 10Gb/s performance without need for expensive electronics.

All fibers cabling specified by SIP is the flame retardant, plenum rated OFNP type. For speed of installation, pre terminated InstaPATCH cables were used, allowing more than 90 connections to be completed in the time it takes to connect one conventional fiber.

In total, the new data center has 5,800 fiber ports. Currently these support 10G data transmission, however, the SYSTIMAX fiber has potential to support 40G and 100G connections.

1G connections over copper cabling are provided by the SYSTIMAX GigaSPEED XL Solution. This exceeds the full specifications of the Category 6/Class E cabling standard for XL connections of up to 100m.

More than 100km of LSZH (Low Smoke Zero Halogen) GigaSPEED XL cabling was installed. This connects 1,800 ports linking with blade servers and storage area networks within the data center.

“The SIP installation can deliver data processing resources to hundreds of companies,” said Laura Chen, Regional Sales Director, Greater China, CommScope Enterprise Solutions. “With so many businesses depending on the network infrastructure for vital aspects on their operations, SIP could not compromise on performance or reliability. The Park’s developers turned to CommScope and its local BusinessPartner because they had confidence we could deliver the right solutions at the right time - with the right guarantees and support services.”



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