

# Educating the Doctors of Tomorrow

Our technology powers Duke Medical School's expansion to train doctors from every corner of the globe.



## Duke Medical School in Singapore Installs First-of-a-kind CAT. 7 Campus Network

As part of an effort to make Singapore the biomedical hub of Asia, the government has rolled out an ambitious plan to accelerate development and attract research and health sector manufacturing capabilities to the republic. In addition, the country needed to develop highly-trained medical leaders to support the initiative, so the idea for an institutional collaboration between Duke University and the National University of Singapore (NUS) was born.

Duke University graduate-level medical education is now offered at the National University of Singapore. Duke-NUS required high speeds within building network services in order to serve a new Computational Biology / Genomics facility and also to provide a backbone for routing audio / video / desktop displays to a central AV control and recording system. Building around a 1 Gb/s backbone would provide little expansion over the near term. Duke-NUS selected a 10 Gb/s backbone with CAT 7 cable from the backbone to office locations, providing the potential for 10Gb/s to the desktop in the future.

**“This whole installation was challenging, AMP-TWIST 7AS Cat. 7A jacks were new for my team but with the AMP NETCONNECT SL termination tool from Tyco Electronics we were able to significantly reduce termination time and ensure a high level of consistency over the more than six thousand connections.”**

– ZX Ng, Project Manager  
Century Technology



Duke Medical School and National University of Singapore's new state-of-the-art facility

### THE PROJECT SNAPSHOT

#### Opportunity:

- Install first-of-a-kind CAT. 7 cabling infrastructure to create a “next generation” campus network for Duke-NUS's new 24,000 square meter Computational Biology/Genomics facility

#### Why AMP NETCONNECT?

- Best of breed network cabling infrastructure solution provider
- High performance cabling systems for both fiber and copper
- Scalable, future-ready 10 G/bs support

#### Solution:

- AMP-TWIST 7AS CAT. 7A jacks
- 10 G/bs backbone
- AMP NETCONNECT SL Termination tool

“This whole installation was challenging,” said Project Manager ZX Ng, of Century Technology. “AMP-TWIST 7AS Cat. 7A jacks were new for my team but with the AMP NETCONNECT SL termination tool from Tyco Electronics we were able to significantly reduce termination time and ensure a high level of consistency over the more than six thousand connections.” added Mr. Ng.

The requirements included support for the medical school, offering 24,000 square meters of space across eleven floors in a vertical campus, including the support of IP telephony systems and wireless access throughout the building. There are two server rooms and ten LAN rooms to support the IT demands of the students, faculty and staff.

Consultant CPG was contracted to evaluate structured cabling infrastructure systems to support the building requirements for today and for the next ten years. CPG selected AMP NETCONNECT high performance cabling systems for both fiber and copper, supporting today's requirements and tomorrow's applications with data rates of 10 Gb/s and beyond. The entire network cabling has been designed to be scalable and future-proof for the next decade and beyond. Tyco Electronics' AMP NETCONNECT Design and Installation Partner (NDI) handled the building-wide cabling installation.

### The Right Prescription for Duke-NUS

After more than two years of construction, the building was completed in November of 2008. The IT team was impressed by the highly fault-tolerant, future-proofed network cabling system installation. Tyco Electronics' AMP NETCONNECT manufactured the cabling system is capable of supporting 10G and beyond ensuring Duke-NUS Graduate Medical School will be able to adapt to new network technologies and applications as they are introduced.



10 G/bs + ready cabling technology powers the Duke-NUS communications network

### About Duke University and National University of Singapore:

Located in N. Carolina in the United States, Duke University is one of the world's top institutions of higher education. Its graduate and professional schools - in business, divinity, engineering, the environment, law, medicine, and nursing - are among the leaders in their fields.

A leading global university centered in Asia, the National University of Singapore (NUS) is Singapore's flagship university which offers a global approach to education and research with a focus on Asian perspectives and expertise.



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