

# SYSTIMAX®

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## SOLUTIONS

## University of Texas at Austin Installs State-of-the-Art SYSTIMAX® Cabling to the Desktop

**New Applied Computational Engineering and Sciences Building has GigaSPEED® copper unshielded twisted pair cable, OptiSPEED® singlemode fiber, and LazrSPEED® multimode fiber to every desktop**

### It all began with a vision

The vision was to provide an ideal setting for interdisciplinary research and graduate study in computational science and engineering, mathematical modeling, applied mathematics, software engineering and computer visualization. SYSTIMAX® Solutions, the

O'Donnell Foundation of Dallas, Texas and the University of Texas at Austin have created a thriving environment in which to train the next generations of scholars, scientists, and engineers. To create the best environment the state-of-the-art equipment had to work on the initial day, have capacity for growth, ability to upgrade quickly and economically and be flexible enough to handle change and unexpected developments.



### SYSTIMAX® Structured Connectivity Solutions is the connectivity solution of choice

The new Applied Computational Engineering and Sciences (ACES) building, benefits from the first highly advanced installation of SYSTIMAX SCS. The cabling solutions, running throughout support high-speed data transmissions up to 10 Gigabits per second (Gb/s) to and from the desktop.

The GigaSPEED® copper, LazrSPEED® multimode fiber, and high bandwidth OptiSPEED® singlemode fiber, are all a part of the SYSTIMAX SCS family of products for building and campus networks and will give students and faculty greater flexibility in using high bandwidth data communications.

The LazrSPEED fiber-optic solution uses a short-wavelength, multimode fiber to transmit data at 10 Gb/s. Prior to the introduction of the LazrSPEED Solution, one Gb/s transmission was considered to be the maximum capacity for practical multimode systems.

SYSTIMAX GigaSPEED copper cabling has one of the highest bandwidths of any copper unshielded twisted-pair cable on the market, reliably supporting high bandwidth applications including Gigabit Ethernet, 1.2 Gigabit Asynchronous Transfer Mode (ATM) and all 77 channels (550 MHz) of analog broadband video.

The Applied Computational Engineering and Sciences (ACES) Facility is equipped with a highly flexible infrastructure consisting of 1.3 million feet of advanced cabling that can efficiently handle current communication applications as well as future innovations in technology such as imaging, streaming video and other bandwidth intensive applications.

The ACES building, constructed and donated to the university by the O'Donnell Foundation, is on the leading edge of academic computational facilities, with state-of-the-art equipment and systems. Among its feature attractions is the Visualization Research Laboratory, a 2,900 sq. ft., high performance interactive facility that uses a 10 ft., 180 degree cylindrical projection screen with images generated by an SGI Onyx2 supercomputer. The lab will be used by students to analyze large graphic data files that reveal minute particles in several dimensions. An electronic seminar room contains 42 seats with remote distance learning, advanced video and teleconferencing capabilities. In addition, power and an Ethernet port are provided at every seat.

The new ACES building has a 196-seat auditorium called. It features power and Ethernet network connections at every seat. It features a user-friendly audiovisual presentation system, with distance learning capability and a Dolby® digital sound system.

In noting how SYSTIMAX SCS enables the delivery of high-speed communications, Kurt Bartelmehs, program manager for Instructional Technology at the University of Texas at Austin stated: "The SYSTIMAX cabling solution is flexible enough to support high-speed data transmissions for a variety of communications. SYSTIMAX SCS meets our goals for the building to give us enough flexibility and capacity to handle any communications application available today and have lots of room to grow for many years to come."

"SYSTIMAX Solutions™ is delighted to supply such a noted institution as the University of Texas at Austin with one of the most advanced and flexible cabling solutions available today," said Peter Karlsson, Senior Vice President of Sales, Enterprise Solutions, SYSTIMAX Solutions. "The ACES building is state-of-the-art and SYSTIMAX SCS is providing students and faculty with unlimited possibilities for the fast delivery of the data that they need in this innovative and challenging environment."

#### Throughout the Building

- 16,500 sq. ft. of lab space designed for maximum flexibility and reconfiguration
- 14 networked seminar rooms
- Videoconferencing capability on every floor
- 27 fully equipped offices for academic and industry visitors
- Open discussion areas and collaborative spaces on every floor
- 32,500 gross sq. ft. of shelled space for future expansion

#### Advanced Research Programs Housed in the Building

- Visualization and Graphics
- Software Engineering
- Simulation Based Engineering
- Center for Fluid Dynamics
- Interdisciplinary Mathematics
- Numerical Analysis
- Subsurface Modeling
- Intelligent Systems and Robotics
- Computational Finance

#### Telecommunications System

- Designed to support bandwidth intensive research
- Designed to support changing technology
- Advanced network design by Intel
- SYSTIMAX Copper and Fiber-Optic cabling solutions
- Fiber-to-the-desktops, labs and seminar rooms
- Gigabit copper cabling to all rooms and labs
- Reserved conduits for additional systems installation
- Cable trays and raceways for flexibility, expansion room and easy installation
- Provisions for wireless environment
- Separate generator system for increasing power and cooling as needed
- 100 percent excess capacity built in

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