

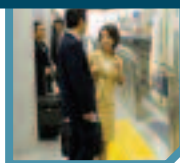


Technology
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SYSTIMAX®
SOLUTIONS

Cisco Technology Developer Partner Catalog



GigaSPEED X10D, GigaSPEED XL, PowerSUM, LazrSPEED, TeraSPEED, and OptiSPEED have all passed testing and been proven interoperable in IP Communications.

SYSTIMAX Solutions

Desktop communications are now vital to the success of the enterprise. As new network-intensive productivity software is introduced, the quality of connectivity at the desktop will be decisive in achieving a competitive advantage. Higher performance network connections mean a higher performing business because everyone in the organization can work faster and better. They can share information more easily and have greater scope to collaborate with colleagues and customers. They can also benefit from innovations and new ideas that depend on fast communication—without worrying that the network will be too slow or unreliable.

The network is crucial to competitive advantage, and the foundation for network performance and reliability is the cabling infrastructure. When an organization must compete more strongly and operate more efficiently, it needs cabling to the desktop, riser, and campus backbone that allows this to be achieved. Every organization has its own route to a more efficient and profitable future. Factors including size, business sector, investment policy, and traditional systems combine to determine what network infrastructure will best fit the business requirement. That is why the SYSTIMAX product portfolio has more than one cabling solution.

Copper Cabling Solutions

The SYSTIMAX GigaSPEED X10D Solution: 10 Gigabit Ethernet over Copper/UTP Solution

The SYSTIMAX GigaSPEED X10D Solution provides a next generation total solution that will support the future bandwidth needs of enterprises, application-rich companies, specific vertical markets, and in particular data center applications. The GigaSPEED X10D Solution has been specifically engineered with enhanced cable and connector performance designed to support the emerging 10 Gbps Ethernet requirements. Using

patented technology and the scientific capabilities of SYSTIMAX Labs, the GigaSPEED X10D Solution exhibits superior channel performance for traditional solutions and innovative engineering techniques to meet the specific demands that 10 Gbps brings to the physical layer. Included in the GigaSPEED X10D Solution is the SYSTIMAX iPatch Real Time Infrastructure Management System: the cost-saving control of physical infrastructure for secure corporate information flow. Offering interactive, real-time control over both copper and fiber connections, the results are more responsive network administration and better security. The system also reduces running costs by automating routine management

tasks and assisting technicians in the completion of work orders and service provisioning. As a result, productivity is increased, and managers achieve more efficient use of resources and cost control.



A 91 Series Cable



B Outlet and Cord



Primary Benefits for Your Enterprise

Anticipates Enterprise Bandwidth Growth

Large enterprises are faced with a growing need for higher bandwidth in the horizontal and backbone network to support such applications as storage area networks, network attached storage, high-performance computing, and grid computing. Even if these applications attain just 10 percent of the PC's network traffic potential, as current rates of processor speed increase, 10 Gbps desktop communication is within a planning horizon of 5 to 10 years.

Provides Revolutionary Channel Performance

The data-carrying capability of a structured cabling system is affected by a number of potential impairments. The GigaSPEED X10D Solution provides superior performance for important parameters such as insertion loss and all forms of crosstalk, both within and between channels, yielding improved bandwidth, data throughput, and network efficiency.

Tuned to Perfection

The GigaSPEED X10D Solution is a tuned system that delivers high levels of performance margin and far exceeds the performance achieved by Category 6/Class E standards compliance. Building this complete world-class cabling solution requires world-class research, design, and analytical tools. The scientists and engineers of SYSTIMAX Labs have developed advanced design and testing technology: Modal Decomposition Modeling, Connector Field Pattern Modeling, and Cable Twist Accuracy Technology. This combination of tools allows great insight into the performance characteristics of every channel component with superior precision.

Real and Robust 10 Gbps Capacity

The solution exhibits channel Alien Crosstalk suppression in excess of the IEEE requirements established for unshielded twisted pair (UTP), as well as superior channel margin for Near End Crosstalk, Far End Crosstalk, and other internal parameters. The GigaSPEED X10D Solution exhibits superior channel performance up to 500 MHz in excess of the current Category 6A/Class EA standards.

Components Deliver an End-to-End Channel

The type of the components used in a system can affect the composite performance of the total system. Overall performance can also be decreased by mismatches between the patch cords, connectors, and horizontal cable. The GigaSPEED X10D Solution addresses performance by being a complete solution that offers a new innovative patching system together with a wide range of traditional round cables and cordage.

High Reliability, Low Variability

The weak link in any cabling channel is found at the connection points and is magnified at the higher frequencies being considered with 10GBASE-T. The solution to this problem can be to perfectly match backward-compatible patch plugs and jacks. In the GigaSPEED X10D plugs, the termination of patch cable pairs inside the plugs is tightly controlled to reduce variability to a negligible level.

The SYSTIMAX GigaSPEED XL Solution: Beyond Category 6

The SYSTIMAX GigaSPEED XL Solution combines the simplicity and versatility of copper cabling with support for the most demanding gigabit applications. With performance well beyond Category 6 specifications and transmissions almost three times quicker than Category 5e solutions, the GigaSPEED XL Solution provides an opportunity to deliver a fast return on investment. The GigaSPEED XL Solution gives desktop systems less downtime and more bandwidth-intensive throughput. Its performance across a 250 MHz frequency range offers potential for multigigabit throughput in the future.

The SYSTIMAX PowerSUM Solution: Category 5e Choice for Applications

The SYSTIMAX PowerSUM Solution is a high-performing Category 5e cabling and has proved itself to be a blueprint for the completed Category 5e standard. It offers more value based on better performance, providing bandwidth, throughput, and reliability far above Category 5 products and improves on the electrical performance specified in the Category 5e standard by 100 percent. The PowerSUM Solution is an excellent Category 5e choice for applications that need high-quality, fully integrated cabling without the throughput potential for Category 6 cabling.

Fiber Cabling Solutions

The SYSTIMAX LazrSPEED Solution

The SYSTIMAX LazrSPEED Solution provides a low-cost, low-risk route to reliable LAN communications in the multiple Gbps range. It boosts performance to 10 Gbps without the need for expensive opto-electronics, therefore significantly reducing the cost of achieving higher speeds over 50-micron laser-optimized multimode fiber. It supports 10 Gbps transmissions at distances up to 550 meters, making single-point administration topology a real low-cost design alternative and allowing more campus backbones to be supported at 10 Gbps over a much lower cost multimode alternative.



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The SYSTIMAX OptiSPEED Solution

The SYSTIMAX OptiSPEED Solution was developed to provide a 62.5-micron multimode fiber-optic solution that is the backbone for today's performance requirements. It provides one of the lowest loss channels in the industry, over 300 meters, a longer distance than specified by the standard for 1 Gbps short-wave transmission. Channels composed exclusively of OptiSPEED passive products end to end are capable of delivering up to 10 Gbps over limited distances in accordance with application standards.

The SYSTIMAX TeraSPEED Zero Water Peak Fiber Solution

This solution is designed to cost-effectively further future proof enterprise and metro campus backbones for next-generation equipment. It removes the "water peaks" associated with traditional single-mode fiber, lowering attenuation and thus increasing the usable wavelength range by over 50 percent. This feature of TeraSPEED fiber allows complete support for optical electronics that operate at higher serial speeds or that employ wavelength multiplexing to provide for their future cabling needs at a lower cost.

The SYSTIMAX Solutions Advantage

SYSTIMAX Labs

SYSTIMAX Solutions prides itself on its technological leadership, which is maintained by employing world-class engineers and scientists. SYSTIMAX Labs has a remarkable track record in innovation, with over 600 active patents and applications worldwide. It aims to be the first to market with next-generation innovative systems and has consistently achieved that over the years with new copper and fiber solutions. SYSTIMAX Labs representatives are active participants in every major standard-setting body around the world.

Global Locations

SYSTIMAX Solutions is supported by over 1000 people covering more than 100 countries and has five main manufacturing facilities around the world: Omaha, Nebraska, United States; Claremont, North Carolina, United States; Bray, Ireland; Brisbane, Australia; and Jaguariuna, Brazil. Across all five plants, quality control standards are stringent and consistent in accordance with ISO-9001 certification.

Global Presence

Through a global network of approximately 2000 highly skilled BusinessPartners, SYSTIMAX Solutions supports 75 percent of the top 100 global companies as ranked by FORTUNE magazine.

Warranty

The SYSTIMAX Structured Connectivity Solutions (SCS) 20-year warranty provides applications assurance as well as an extended product warranty.

SYSTIMAX Solutions

www.systemax.com



SYSTIMAX Solutions Products have been tested compatible with: IP/VC 3510 Multipoint Control Unit (MCU) v2.2, Cisco Unity Bridge 3.01, Cisco Unity 4.0.3, Cisco PIX Firewall, Cisco Multimedia Conference Manager 12.1(5)XM3, Cisco MDS-based storage products, Cisco IP/VC 3540 Multipoint Control Unit (MCU) v1.0, Cisco IP/VC 3530 Video Terminal Adapter, Cisco IP/VC 3525 Gateway v2.2, Cisco IP/VC 3520 Gateway v2.2, Cisco IP Phone 7900 Series, Cisco IP Contact Center (IPCC), Cisco Intelligent Contact Management (ICM), Cisco eMail Manager, Cisco Distribution Switches, 4XXX Series, Cisco Distribution Switches, 36XX Series, Cisco Distribution Switches, 3548XL, Cisco Computer Telephony Integration (CTI), Cisco Collaboration Server, Cisco CallManager Express 3.2, Cisco CallManager 4.1(x), Cisco CallManager 4.0(x), Cisco Access Switches, Cisco 7600 Series Routers, Cisco 7500 Series Routers, and Cisco Catalyst 65XX Layer 3 Switches.

The Cisco Compatible logo signifies that SYSTIMAX Solutions products have undergone interoperability testing by SYSTIMAX Solutions together with Cisco and a third-party test house based on testing criteria set by Cisco. SYSTIMAX Solutions is solely responsible for the support and warranty of its product. Cisco makes no warranties, express or implied, with respect to SYSTIMAX Solutions product or its interoperability with the listed Cisco product(s) and disclaims any implied warranties of merchantability, fitness for a particular use or against infringement.

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