



Industrial Networking Solutions

The Leader in Industrial Ethernet Products, Services and Training

Product Lines



Hirschmann/Belden
Ethernet Switches, Routers & Transceivers
 Ethernet switches, routers and transceivers for twisted-pair and fiber-optic networks that are designed to withstand tough industrial environments and deliver reliable self-healing Ethernet redundancy.



MOXA
Industrial Switches, Device Servers, I/O
 Moxa manufactures Industrial grade Ethernet switches, I/O, Device Servers, Wireless AP's, and Computers. In addition, Moxa can deliver customized solutions for projects with specialized requirements.



Cisco
Ethernet Switches & Routers
 The world's largest manufacturer of Ethernet switches, routers and other networking infrastructure products for commercial and industrial environments.



Digi International
Serial & Cellular Connectivity Solutions
 Digi International manufactures reliable products and technologies enabling you to connect and securely manage local or remote electronic devices over the network or via the web.



SST/Applecom
Industrial-Protocol Network Interface Cards
 Connect computers directly to industrial networks. NIC, PLC Modules and Gateways for Controlnet, Devicenet, Lonworks, Interbus, Profibus, DH, DH+, Modbus and Ethernet



ESTeem
802.11b/g Wireless Networking
 Ethernet wireless modems (2.4 GHz and 900 MHz) designed for the rigors of the industrial market utilizing the 802.11b/g direct sequence protocol that operate with data rates of 54 Mbps and a range of 5 to 7 miles.



Westermo
Industrial Dial-up, Lease-line, & Short-haul Modems
 One of Europe's leading developer and manufacturer of communication products and solutions within the area of industrial data.



Robust DataComm
Serial Line Conditioners & Converters
 Electrically isolate, repeat and convert RS232, RS422/485 and fiber signals with power-surge protection.



Matrox
Fiber KVM Extention and Quad-Display
 Matrox Extio graphics units offer keyboard, video, mouse (KVM) extension over fiber-optic cable with supporting quad-display configurations.



Cable & Connectors
 Fiber-optic and copper cabling and connectors for high bandwidth communication transmission built to withstand harsh environments and industrial applications.



Sierra Wireless/AirLink
Cellular Modems
 Wireless data solutions enabling pervasive connectivity to fixed, portable and mobile assets via GSM and CDMA cellular data networks.



MOBOTIX
Ethernet/IP Cameras
 High-resolution, flexible, self-contained cameras that capture images, compress them to standard formats and make them available to networks.



Emza Visual Sense
Intelligent Visual Sensors
 Emza Visual Sense manufactures the WiseEye series of outdoor-rated IP security cameras with advanced recognition software.



Weed Instrument
Industrial Fiber Optics
 Fiber Optic Converters designed to take traditional copper networks, convert them to fiber optic signals, and back again. Industrial Ethernet, Profibus, Modbus, Modbus Plus, ControlNet, DeviceNet, Data Highway Plus, DH-485, Genius, Remote I/O, RS232/484, Reliance R-Net. Analog: 4-20mA, 0-10V.



DEHN
Suppressors, Arresters, Surge & Lightning Protection
 DEHN designs, develops and manufactures a comprehensive range of surge and lightning protection products to protect electrical and electronic components and systems from high energy transients.



Innominate Security Technologies
Security Appliances
 Innominate offers solutions in two main areas "Industrial Ethernet Security" and "Secure Remote Maintenance" for machines and industrial equipment.



Dynics/Ann Arbor Technologies
Flat-Panel Touchscreen PCs & Displays
 Complete flat-panel computer systems designed to meet the needs of industrial applications. Displays are panel-mount active matrix TFT LCD displays for industrial PC applications with VGA input.



Adder Technologies
KVM Switches & Extender
 KVM switches allow multiple computers to share one Keyboard, Video and Mouse. KVM Extender allow the Keyboard, Video and Mouse to be physically located across a network in a central or remote location.



Lantronix
Serial to Ethernet Network Solutions
 Device servers providing the ability to remotely control, monitor, diagnose and troubleshoot your equipment over a network or the Internet.

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Network Services

Industrial Networking Solutions (INS) is designated by CISCO Systems as a certified Manufacturing System Integrator. This highly selective accreditation recognizes the unique network technology expertise INS offers to the industrial community. Founded in 1998, INS has an established track record of success providing industrial customers with services ranging from network audits to turn-key network design and implementation.



Troubleshooting/Auditing

Network outages can cause loss of production, upsets in product quality and loss of business system visibility. Without proper diagnostic tools and training, do-it-yourself troubleshooting can cause headaches and consume hours of valuable plant engineer and technician time.

Consulting/Design

Whether you need a new network, or want to optimize or expand your current network, INS offers experienced advice and professional design services to assist you in reaching your productivity, performance, and security goals. INS consultants gather and assimilate the budget, performance, and security needs of network users from the plant floor to the front office. INS can assist you to choose the right hardware, create the best architecture and implement the optimum operational plan to suit the diverse needs of all parties, while meeting regulatory requirements and budgetary guidelines.

Installation/Commissioning

INS can provide turn-key green-field or upgrade network installation from our design or a design provided by others. INS provides turn-key project management and construction for wired, wireless, WAN and hybrid industrial Ethernet networks. Our unrivaled experience with video, voice and serial-over-Ethernet technology implementation makes INS the clear choice when implementing a converged plant-floor network.

Industrial Ethernet Network Training

The use of Ethernet in industrial and plant floor environments continues to grow dramatically. Industrial users face a wide range of options when designing and implementing plant-level Ethernet networks. INS training courses are designed to help industrial engineers and plant personnel design, implement and maintain their Ethernet networks with an emphasis on the unique needs and challenges of industrial networks.

Ethernet Networking Basics

The INS Ethernet Networking Basics course familiarizes students with the basics of Ethernet networks, including the ability to design and install a simple plant Ethernet network.

Advanced Ethernet & Emerging Technologies

The Advanced Ethernet & Emerging Technologies course is designed to provide students with a clear understanding of the technology required for interconnecting LAN segments within their facility. Students will also gain an understanding of the various advanced features managed-network devices offer, how these features are configured and how they are applied. Finally, participants will have a good overview of emerging Ethernet and networking technologies, which are applicable to industrial network environments.

Securing the Industrial Network

Gone are the days when a control network was an isolated communications systems that served a relatively small part of an overall operation. Today, Ethernet networks are rapidly gaining a foothold in the industrial manufacturing and process control industries. These networks have become critical to the day-to-day operation and cash flow into the companies accounts. The desire to automate processes, rapidly share information, and have remote access, require once isolated networks be connected to the outside world. In "Securing The Industrial Network", we look at the tools Control Engineers and Corporate IT Professionals can utilize to create a secure communications environment allowing the companies to operate while protecting their most valuable resource—information.



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