



FROM CONVERGENCE  
TO CONNECTIVITY

[www.excelnex.com](http://www.excelnex.com)



EXCELNEX INTEGRATED SDN BHD (563571-x)

15-2 Jalan USJ9/5N  
UEP Subang Jaya  
47620 Selangor  
Malaysia  
Tel +603 8024 0306  
Fax +603 8024 0608

17-1-19, Bayan Point  
Medan Kg. Relau  
11900 Penang  
Malaysia  
Tel +604 641 5306  
Fax +604 641 5303



Your Source To Industrial IT, Communication &  
Networking Products-Services-Solutions

## OUR COMPANY

ExcelNex Integrated Sdn Bhd has been recognized as a key player in the area of industrial IT, Data Communication & Networking.

In general, we provide solutions that enhance & extend our customer's overall performance. We design and bring up complete hardware platform & system which include industrial grade & ruggedized PC or workstation, wired/wireless device server or communication gateway, heavy duty & high availability industrial networking hardware and custom & durable embedded solution. We've been a solution provider, creating workable & reliable application for various business needs and industries covering Process Control, Telecommunication, Oil & Gas, Semiconductor, Transportation, Building Automation & Power Utility.

Founded in year 2001, we have since grown steadily in our delivery of products and services and we are set to continue growing & expanding. With the combined resources and strengths, we bring a wealth of experience and expertise, to build quality, reliable & cost effective solutions for our valued business partners & customers.

## OUR CORPORATE VALUE

- ☞ CUSTOMER'S SATISFACTION
- ☞ INNOVATION
- ☞ TEAMWORK
- ☞ INTEGRITY

## OUR PEOPLE...

Our people, most of them are engineering professionals, are skilled and motivated individuals, who are the driving force behind the innovations. They also believed in achieving high levels of customer's satisfaction by leveraging on their core technology based expertise.

Our people here are dedicated to teamwork, innovation & synergy. We are proud to see our ideas & skills creating an impact towards the success of a diverse range of projects.

## OUR MISSION

Customer's satisfaction, has always been the hallmark in ExcelNex's value system and the guiding principle of our business execution as we understand the challenging need of fulfilling customer requirement in this dynamic & converging marketplace.

As technology continues to drive our growth, embedded & industrial components are used in applications that were unimagined just a few years ago. Exciting developments from DNA analyzers to telecommunications advances to improved automobile safety and comfort rely on embedded technologies. Innovative, easy-to-use, high performance analysis & measurement solutions are constantly in high demand, to improve & optimize the performance of the systems. As an emerging player in the fast changing industry, ExcelNex is growing and expanding. We will continue to focus on technology and customer service to grow with our clients as we know the future of computing offers more opportunity for those who continue to leverage & excel. This enhances our ability to anticipate market requirements and provide customers with innovative products & solutions.

## PRODUCT OUTLINE

☞ Industrial Computing	01
☞ Embedded Module & System	02
☞ Ruggedised Notebook & Workstation	03
☞ Network Computing	04
☞ Industrial Display & Panel	05
☞ Data Acquisition Solution	06
☞ Multiport Serial Board Solution	
☞ Industrial Media Converter, Transceiver & Multiplexer	07
☞ Console Server	
☞ USB-to-Serial Hub Solution	
☞ Serial Device Server	08
☞ Industrial Ethernet Switch	09
☞ Industrial GSM/GPRS Solutions	10
☞ Industrial Wireless Solution	
☞ Wireless Network Test Solutions	11
☞ Industrial Modem & Multiplexer	
☞ Network Management Software	12
☞ Industrial Video Server	
☞ Fiber Optics, Cable & Accessories	

# Industrial Computing

Industrial PC is widely used for machine, process, building & factory automation, offering scalability in performance and connectivity. It fits nearly all applications in the industrial environment thanks to its various built and form factor. When EMC, temperature, vibration and shock become main concerns, the Industrial PC is the preferred choice and cost effective alternative.

**PRODUCTS INCLUDE:**

- Single Board Computer
- Industrial ATX Motherboard
- Industrial Power Supply
- Passive Backplane
- Industrial Chassis
- Accessories including membrane, waterproof keyboards, trackball, multiple/SCA removable drives, 2.5"/3.5" drive anti-vibration kit, flash disk, DiskOnChip carry board.



1U 19" Industrial Chassis

4U 19" Industrial Chassis

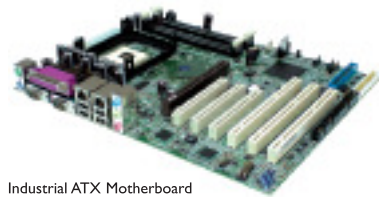
Industrial Chassis with High Density Drive



Compact Chassis



Blade Server



Industrial ATX Motherboard



Single Board Computer



Dual CPU Single Board Computer



# Embedded Module & System

Embedded computers are all-in-one devices that handle special purpose computing tasks for both consumer and industrial applications. Mainly x86 & RISC based hardware, it supports standard Windows operating system and Linux, CE & XPE platform. A user friendly design platform is also available to facilitate application development.

**PRODUCTS INCLUDE:**

- Mini RISC based Controller/board
- RISC-based 19-inch Rack-mounted Data Acquisition Embedded Computer
- 5.25" x86 based Shoe Box Controller
- 3.5" x86 based Compact Controller



Fanless Embedded Box



Embedded Board



Universal Communicator

# Ruggedised Notebook & Workstation

These Notebooks are portable PCs designed for use in demanding environment. Their rugged design ensures reliable operation under outdoor conditions. With our products we cover the complete range from a convertible Tablet-PC up to a highly modular notebook system.

**PRODUCTS INCLUDE:**

- Convertible Notebook and Tablet PC
- Lightweight and Ruggedized
- Withstands Strongest Conditions
- Modular Notebook with PCI & ISA



Ruggedized Portable

RuggedNote

Portable Notebook



Rugged Portable Workstations are highly modular computers designed for outdoor use. Their rugged design extend to all internal components as well as expansion cards. With our products we cover the complete range from a compact Notebook with 2 expansion slots up to a Workstation with 6 expansion slots.

**PRODUCTS INCLUDE:**

- Modular Notebook with PCI & ISA slots
- Industrial Workstation with PCI & PCI-X Backplane
- Rugged Workstation with PCI & ISA slots
- Military Workstation with PCI & ISA slots



Ruggedized Portable Workstation

Ruggedized Notebook

Portable Workstation



In-vehicle Embedded Computer

In-Vehicle Computers are PCs designed for fixed mounting in any type of vehicle. The spectrum of covered applications extends from PC-platforms used in commercial vehicles up to security relevant public safety and tactical PC-solutions.

**PRODUCTS INCLUDE:**

- Commercial Vehicle Server
- Versatile & Compact Embedded Computer



Versatile Embedded Computer



# Network Computing

Like most of the Network Appliances, the NSA family is certified to use with Windows, Linux and Free BSD operating systems. It comes with PCI and PCI-Express system. It includes a diverse number of platforms from ultra-low voltage Celeron solutions right through to 2U Enterprise Level appliances with Intel's 64-bit Xeon processor and even higher-end up to 4U Blade Server supporting 64-bit Xeon processors.

**PRODUCTS INCLUDE:**

- 1U P3-P4 Server
- 2U Dual Xeon Server



1U 8 LAN Port Network Appliance



2U 8 LAN Port Network Appliance





# Data Acquisition Solution

Remote I/O connects a variety of sensors, and electrical, electronic, and mechanical devices—temperature, humidity, and light sensors, pressure transmitters and motors, serial devices, and more—to computers and applications over standard Ethernet networks and the Internet. It also comes in traditional RS-485 model of I/O server: The ThinkIOs have a similar feature sets regarding “standard PC interfaces”, industrial features, fieldbus and flexible I/O connectivity. ThinkIO can be used as an industrial PC (IPC) with application development on embedded Windows XP or Linux or optionally as an IEC61131-3 PLC.



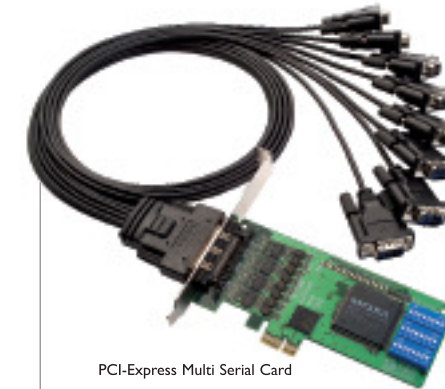
Expandable Remote I/O Server

**PRODUCTS INCLUDE:**

- Expandable Ethernet I/O Server
- Active Ethernet I/O Server
- IEC-61131-3 PLC



IEC-61131-3 PLC



PCI-Express Multi Serial Card

# Multiport Serial Board Solution

RS-232 is an universal and commonly used serial interface. In spite of its limited 15 meter transmission distance, its easy wiring features and reliability make RS-232 the native & preferred communication interface for many devices. The RS-422 protocol greatly expands the practical possibilities of the serial bus while RS485 is an updated version of RS422 that was designed to address the problem of communication between multiple devices on a single data line. To extend the serial port of a PC, we offer both *Intelligent & non-intelligent* type of multiport serial card.

**MULTIPOINT SERIAL BOARD COMES WITH VARIOUS FORM**

**FACTORS INCLUDE:**

- PCI & Universal PCI
- ISA
- PC-104
- PCI-Express



Wide range of drivers are available for major Windows and Linux/Unix OS.

Easy to use Windows API library like PComm library includes powerful tools for analyzing and troubleshooting communication performance. The Data Scope utility provides some useful features to capture & display on-line serial data.



# Industrial Display & Panel

The scalable product line of the new HMI systems offers a wide range of processor capacities and display dimensions from 10" up to 19". The 100% industry-capable Panel PCs and displays meet toughest industrial requirements concerning shock, vibration and temperature resistance. As for Panel-mount and stand-alone Displays, they are meant for demanding industrial applications. And the Flame-Proof and Explosion-Proof Displays and Workstations for harsh environments.

**PRODUCTS INCLUDE:**

- Panel PC
- Micro Client

**RUGGED DISPLAY**

**PRODUCTS INCLUDE:**

- Industrial panel mount modular workstation
- Full sunlight viewable & Touch Screen display
- Extreme Performance Touch Screen Workstation Certified Class 1 Zone 2/ATEX Zone 2



ATEX Zone 1 Sunlight Readable Display



Industrial Display



Outdoor Display

# Industrial Media Converter, Transceiver & Multiplexer

A Media Converter extends the communication connection to a remote device by converting the connection to different communication media and interface.

Comes with redundant powered options, din-rail mount, wide temperature support, packaged in rugged, industrial quality Galvaneal and powder-coated shells, the hardened Optical Ethernet Hubs and Optical Serial Data Links range of products are designed specifically for mission critical, industrial communication applications, power utility & hazardous location where signal integrity, reliability and overall costs are important considerations.

**PRODUCTS INCLUDE:**

- Repeater & Isolator
- RS232 To RS 422/485
- Serial To Fiber
- Ethernet(RJ45/BNC/AUI) To Fiber



# USB-to Serial Hub Solution

UPort adaptors and hubs provide between one or many independent RS-232/422/485 ports, ideal for connecting data acquisition equipment and other serial devices to notebook and desktop PCs.

The UPort products are compliant with USB 1.0/1.1/2.0 specifications, and it provides Hi-Speed USB operation at 480 Mbps. The COM port settings can be saved onto the UPort hub, and can be restored anytime when the hub is connected back into the PC, even if it is plugged back into another PC or USB hub.



# Console Server

Intelligent console servers enable you to access, monitor and manage serial devices across multiple locations, both over the network or via their console ports, even when the network is down. The Dual LAN Async server supports 2 IP and 2 MAC Addresses and Dual-host Redundant Data Acquisition Solution (DRDAS) while the Secure Console Server enables secure transaction via SSH/SSL.

It's Port Buffering feature prevents serial data loss when Ethernet is off-line, one Ethernet port with 802.3af Power Over Ethernet (POE) support and it caters for any Baudrate mode for more precise baud rates.

**PRODUCTS INCLUDE:**

- Dual LAN Async Server
- Secure Console Server



# Serial Device Server

NPort Device Server *network-enable* traditional RS-232/422/485 devices. Serial Device server is a tiny intelligent box that bi-directionally translates data between the serial and Ethernet interface, allowing you to access, manage and configure remote facilities and equipment over the LAN and WAN over TCP/IP protocol.

Serial device server supports SNMP MIB-II for network management with some models supporting Wide Temperature range while the industrial device server comes with built-in Ethernet Cascading ports for easy wiring, redundant dual DC power inputs and ability of sending warning by relay output and E-mail.



**PRODUCTS INCLUDE:**

- Wireless Serial Device Server
- Industrial Grade Device Server
- Programmable Device Server

# Industrial Ethernet Switch

Ethernet Outdoor products are designed for temperature uncontrolled sheltered applications, typically located outdoors. Examples of industrial Ethernet applications include intersections for road side traffic control, telecommunications exchange, mines and quarries, aeronautical installations and military sites, waste water treatment plants, utility substations, and wireless data management.

## INDUSTRIAL ETHERNET SWITCH (1000/100/10BASE) INCLUDES:

- Modular Managed Redundant Managed Switch
- Hardened Outdoor Managed/Unmanaged Switch
- Managed Fiber Switch
- Converter Switch (RJ45, AUI, BNC)
- Hub & Repeater



Ruggedized Switch



Industrial Gigabit Switch



Industrial Router



Outdoor Ethernet Switch



Modular Mixed Media Switch



# Industrial GSM/GPRS Solutions

To support day-to-day operation, enterprise management systems need to be connected to all the field and information assets. You need to rely on proven connectivity devices and infrastructures so that information can be reached globally and successfully. When this information is gathered from the field or from industrial plants, you want to be sure that these connectivity devices will fully comply with the requirements of industrial or outdoor environment. The eWON connectivity solutions for the Infrastructure & M2M (Machine-to-Machine) market are designed to meet these strong requirements, providing interoperability and continuity between machines and systems.

## THE eWON PRODUCT LINE INCLUDES:

- Industrial Routers supporting PSTN, ADSL and GPRS/EDGE connectivity
- Industrial Extranet with VPN Layer and secured SSL technology
- Remote Metering through FTP, SNMP or SMTP protocols
- Remote Accessibility and Management features for PLCs, SCADA applications over a TCP/IP layer

# Industrial Wireless Solution

If you're looking for longest-range, highest-interference immunity and robust performance for industrial systems using license-free bands, Data-linc's flagship frequency hopping technology might be the answer. Available in either serial (RS-232/RS-422/485) or Ethernet interfaces, the SRMs provide robust wireless transmission for SCADA, wireless I/O, factory automation, and PLC/HMI applications. Point-to-point and point-to-multipoint architectures are supported and repeater mode may be used to extend distance or work around obstructions.

## PRODUCTS INCLUDE:

- Short-Range Wireless Serial Modem
- Wireless I/O Modems
- Industrial Wireless Ethernet Bridge/Access Point
- Antenna and Cable Accessories



In-vehicle WiFi



High Performance Wireless Radio (Ethernet)



ATEX WiFi



High Performance RF Radio (Serial)

Designed to manage large SCADA networks, LincView OLE radio diagnostic software enables the monitoring and control of large RF networks in both short-range and long-range applications in harsh industrial environments. It provides detailed information about every modem in the network and time stamps the last communication received.



A handy backup gadget will save and load the configuration of the EDS-series managed switches via RS-232 console port.



EDS-SNMP OPC Server Pro provides a Real Time Management for any SNMP device. By generating a dedicated Tag file using the default MIB file, it allows operators to create a customized, real time view of the integrity of any Ethernet network device, the overall Ethernet network traffic volume, and overall Ethernet network status in an existing HMI software environment.



## Wireless Network Test Solution

Enterprises can now deploy wireless LANs with the same confidence they do with wired networks, thanks to AirMagnet's suite of wireless network assurance solutions.

With AirMagnet's suite of wireless network assurance solutions you always know who has access to your network, what the state of security is, how devices are performing, and more. Most importantly, if something goes wrong you have an expert system that automatically alerts you, identifies and explains each event, and physically locates issues, helping you to immediately solve problems anywhere in the network.

### PRODUCTS INCLUDE:

- Enterprise
- Laptop/Handheld Analyzer
- Surveyor/Planner
- Spectrum Analyzer
- VoFI Analyzer
- BlueSweep



Wireless Laptop Analyzer



Wireless Handheld Analyzer

## Industrial Modem & Multiplexer

Sometimes it's desirable to use wired or telephone lines for communication to remote sites or within plants, simply because of it's field-proven wire technologies which are well known for

1. Security, data integrity, and reliability in high-noise environments
2. Exceptional long-range communications
3. Support of automation equipment architectures, interfaces, and protocols
4. Industrial ruggedness and environmental compatibility.

### PRODUCTS INCLUDE:

- Industrial Dialup/Leased Line Modem
- Bell 202 Long Line Modem
- Multipoint Modem System
- FSK Wire Modem
- Power Line Carrier Modem
- Fiber Optic Industrial Modem



Industrial Leaseline Modem

Dedicated Line Wire Modem

## Network Management Software

IntraVUE™ was developed to fill the gap between existing IT networking tools and provide what is needed to support Ethernet applications on the plant floor. The underlying concept was to create an effective diagnostic tool that was simple and easy to use. The features and capabilities center on the requirement to manage groups of distributed Ethernet nodes. With the Auto-Discovery and Auto-mapping feature of the software, it is capable of capturing the exact configuration of the network.

Powerful Failed-Device Recovery tools like Auto-IP essentially acts in much the same way as a DHCP server, with specifically targeting at fixed IP devices. If a device fails, the technician is only required to obtain the replacement unit, plug in the network cable and then power up the unit. The device will send out a request for an address and the Auto-IP software will detect the request, identify the location where the request is coming from and set the appropriate address. This eliminates potential errors and reduces the Mean-Time-To-Repair (MTTR).



Industrial Video Server

## Industrial Video Server

Digitized analog video and LAN enabled server extends distance and allowed PTZ motorized camera control over COM port. The IGMP feature allows effective traffic control for multiple viewer. Remote access via xDSL connection possible via PPPoE and DDNS support, SNMP MIB-II caters for network management. Products support MJPEG & JPEG4.

The IP Surveillance Software is designed for IP Surveillance systems that use Video Servers as the Distributed Video Networking solution.



## Fiber Optics, Cable & Accessories

### PRODUCTS INCLUDE:

- Attenuators
- Switches
- Backplane Interconnects
- Fiber Optic Cable Assemblies
- Splice Closures

