INDUSTRIAL
DEVICE NETWORKING
LANTRONIX®

Connect.
Communicate.
Control.

INDUSTRIAL
DEVICE
NETWORKING

Industrial Device Networking

In the industrial environment conditions can be harsh. Whether it's on the factory floor, an oil platform, locomotive, weather station or a warehouse, you have to depend on your equipment. And in the quest to stay competitive through greater efficiency, productivity and quality control, you also need the ability to remotely access, manage and control that equipment. *That's where Lantronix comes in.*

With a Lantronix industrial device server, you can quickly and reliably connect virtually any piece of factory equipment to a network or the Internet to interactively access, manage, control, evaluate and utilize data from the equipment. This powerful, yet amazingly simple-to-implement technology provides the ability to perform real-time remote diagnostics and repair, automate data capture, and automatically and immediately receive notification of a problem.

Imagine the ability to access, monitor and manage remote industrial equipment from virtually anywhere over an Internet connection!

Leading Networking Innovation and Expertise

With nearly 20 years of networking innovation, Lantronix is a pioneer in Industrial Device Networking and a clear leader in Ethernet and 802.11 wireless technology.

With millions of devices networked worldwide across widely diverse applications, Lantronix has provided more network-enablement solutions than any vendor in the industry. And Lantronix is the only company offering a total *Device Network Architecture* that includes enablement and management and control solutions. *Device enablement* makes it possible to connect previously non-networked equipment to the Net so it can be monitored and managed remotely. The convergence of enterprise and edge networks, our *management control solutions* give companies the power of a single point of access to manage everything from industrial equipment to enterprise IT and data center assets from a central location.

INDUSTRIAL
DEVICE NETWORKING
LANTRONIX®

INDUSTRIAL-STRENGTH PRODUCTS FOR HARSH ENVIRONMENTS

Built to withstand harsh environments, our DeviceLinx™ family of rugged device servers and switches offer the ability to connect factory-floor or field devices to enterprise systems without disturbing existing control networks or requiring dedicated wiring. From Ethernet to wireless, Lantronix has solutions for end users, integrators and OEMs alike. Our robust line of products includes options for:

⇢ Ethernet 10Base-T or 100Base-TX, fiber or wireless connectivity

⇢ Flexible serial support – RS-232, RS-422, RS-485

⇢ Modbus protocol support (Modbus ASCII/RTU, Modbus TCP)

⇢ Class 1, Div 2 Certification

⇢ Broad 9-30 VDC through 9-24 VAC input power range to accommodate varying industrial requirements

⇢ Convenient terminal block connections for communications and power

⇢ DF1 Multi-Master protocol support

⇢ Wide industrial-grade temperature range

⇢ Isolated serial and Ethernet ports

⇢ Ruggedized casings

⇢ DIN-rail mounting

⇢ Protection against shock and vibration

⇢ ESD and EMI protection

DeviceLinx™

THE LANTRONIX APPROACH TO NETWORK-ENABLEMENT

Our approach to network-enabling devices is transparent to your attached equipment and software, so you won't need to change the way you work. Easy to set up and transparent to users, Lantronix device servers create virtual serial connections that can extend across the globe. Using a method called "serial tunneling," they encapsulate serial data into packets and transport it over Ethernet in one of two ways:

⇢ Using Lantronix-supplied Com Port Redirector™ software, Windows® device applications that are not designed for network communications are re-directed to connectivity to devices connected to the attached Lantronix device server

⇢ Configuring two device servers to talk to each other over the network creates virtual serial connections that can extend serial communications across a facility or around the world
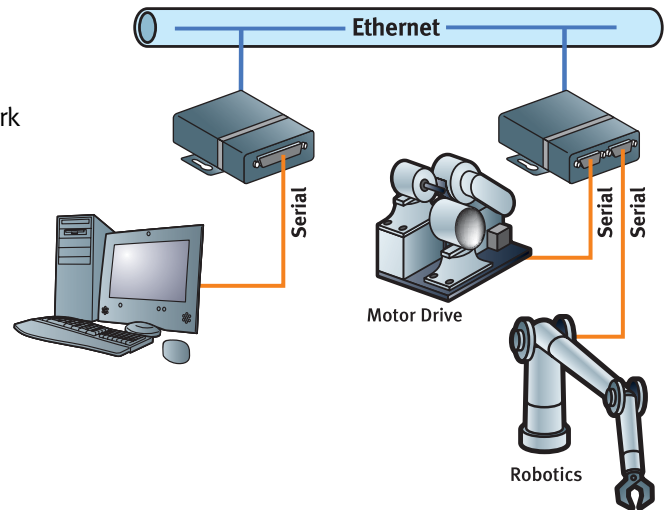
Built-in Web Server

All Lantronix device servers include a built-in web server. This powerful feature enables users to access and configure the device server from a standard web browser. Web pages enabling the device server to be customized for unique applications can be built using Lantronix development tools. On-board Flash memory provides room for future system software upgrades and maintenance-free, nonvolatile web page storage.

DeviceInstaller software makes configuration quick and easy.

Ease of Deployment

Lantronix device servers are easy to set up and configure. They can be set up locally through their serial ports, or remotely using Telnet or a web browser. The included DeviceInstaller™ Windows-based configuration software simplifies setup and provides an easy way to:

⇢ Assign IP and other network-specific addresses
⇢ Load custom web pages
⇢ Enable web-based configuration of the device server
⇢ Ping or query networked device(s)
⇢ View specific device data files
⇢ Upgrade firmware
⇢ Simplify the process of installing industrial protocols

Reduce costs by replacing dial-up modems – Maintaining a dedicated phone line to reach remote equipment is inefficient and costly, and can present security risks. In modem emulation mode, Lantronix device servers can be used to replace dial-up modems, saving the expense of a dedicated line, and increasing security and reliability. The device server accepts modem AT commands on the serial port. It then establishes a network connection to the attached equipment, leveraging network connections and bandwidth to replace dedicated modems and phone lines.

1.

THE SOFTWARE BEHIND THE DEVICE

The power behind Lantronix industrial device networking is our software technology. Nearly 20 years of experience in network-enabling equipment is built into our robust TCP/IP stack, bulletproof security and diverse applications. Lantronix device servers include a fully integrated stack including support for PPP, HTTP, CGI, SNMP and FTP/TFTP. With years of ongoing development, our hardened TCP/IP stack is resistant to hostile attack.

Our most powerful device servers include the Evolution OS™ operating device system and/or EventTrak™ technology, which provide even greater security, advanced web features and an unprecedented level of autonomy and intelligence.

LANTRONIX® EVOLUTION OS™

Evolution Operating System

Evolution OS is the next-generation Lantronix network operating system for device servers. It provides extraordinary power, flexibility and advanced security features. It uses industry-standard tools for configuration, communication and control, such as a Cisco-like command line interface (CLI) with syntax that is very similar to that used by data center equipment.

Without the need to disable any features or functionality, the hardened Evolution OS provides the highest levels of security. With built-in SSH/SSL, Evolution OS has robust defenses against hostile Internet attacks such as denial of service (DoS) and port mapping that can be used to take down the network. Device servers with this operating system also cannot be used to bring down other devices on the network.

Evolution OS supports XML, a standard tool for web services, data transfer and rich-content management that encapsulates data into a text-based format. XML makes device configuration transparent to users and administrators and easily to edit with a standard text or XML editor.

RSS support enables the device server to automatically send real-time device information to a remote database. More powerful than simple email alerts, RSS uses XML as an underlying transport and adds intelligence to the networked device while not taxing already overloaded email systems.

EventTrak™

EventTrak Technology

Lantronix EventTrak software enables the device server to query equipment at timed intervals, then depending on the results, take pre-specified action(s). Fluid-level monitoring is a simple example – if the software notices a digital float sensor drop to a low level, it can trigger a relay to start the fluid pump. When the level is restored, the relay is triggered to stop the pump. The EventTrak-enabled device server then sends an email to the user notifying them of the situation and the actions taken. Instead of reacting to an event or problem, users are proactively notified that an event occurred and the appropriate response automatically took place. This capability also enables users to control networked equipment directly through the serial or I/O port rather than depending on a PLC or SCADA server.

In some instances, several events should occur before action is taken. EventTrak allows "chain definitions" (series of events/actions) to be defined. They can be saved, stored and transferred from one device server to another, providing a great deal of flexibility for large-scale deployment.

INDUSTRIAL DEVICE SERVERS

Lantronix offers a full range of industrial-strength external device servers designed for use with manufacturing or assembly equipment such as programmable logic controllers (PLCs), motion controllers, barcode scanners and power monitoring equipment at manufacturing sites, automated distribution centers and refinery plants.

RUGGED, DIN-RAIL MOUNT ETHERNET AND WIFI NETWORKING

XPress-DR+ Family

XPress-DR+™ DIN-rail mounted device servers are all you need to put your industrial equipment on an Ethernet or WiFi network quickly and easily. With two serial ports and two 10/100 Ethernet switch ports, the XPress-DR+ family enables Ethernet cascading from one network drop. Using SwitchPort+™, Lantronix onboard Ethernet switching technology, XPress-DR+ expands network connectivity by allowing multiple devices to connect to a single network backbone connection. This unique feature saves money by eliminating cable runs and simplifies adding or moving a network device.

- Ethernet and 802.11 b/g
- Modbus TCP, Modbus ASCII/RTU and DF1 Multi-Master protocol support
- 15 Kv ESD serial port protection
- 2.5 Kv Ethernet isolation
- -40° to 70°C operating temperature range
- 9-30 VDC and 9-24 VAC power input range
- RS-232, RS-422 or RS-485 screw terminal connection with a configurable interface

SwitchPort+™
Ethernet Switching Technology

XPress

Industrial Device Servers

Our XPress family of industrial device servers is equipped with isolated serial and Ethernet ports, ruggedized casings, and screw terminal connectors for serial and power. They support industrial protocols such as Modbus TCP, Modbus ASCII, Modbus RTU and DF1, and are FM-approved for hazardous locations Class 1, Div 2.
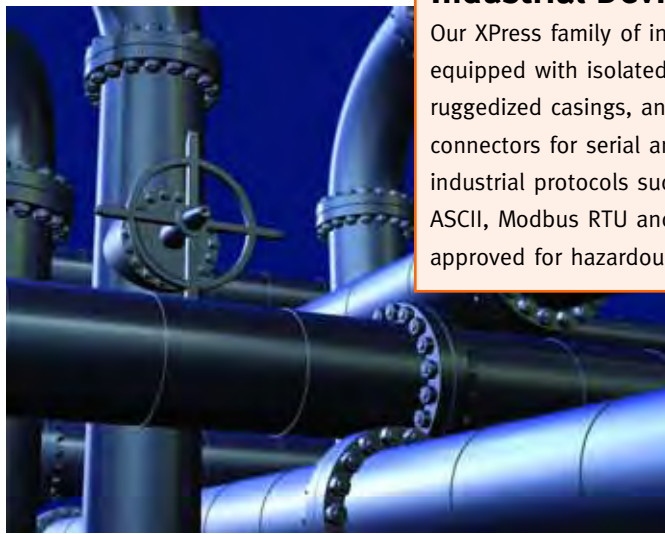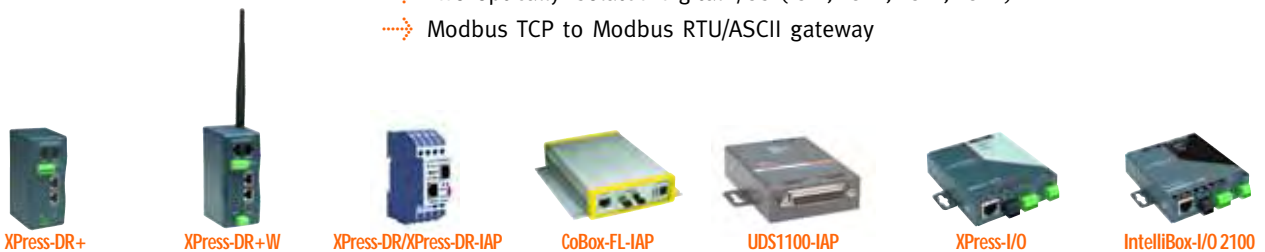
Full Digital I/O Control from Virtually Anywhere

XPress-I/O

With digital I/O and dry contact (relay) functionality, the XPress-I/O device server delivers the ability to remotely access, monitor and control industrial I/O equipment. Using common SCADA, OPC servers or PLCs with Modbus/TCP protocol, this specialized industrial device server enables users to monitor a vast array of equipment (such as environmental alarms, intrusion detection systems and relay contact closures) and respond to events by remotely triggering digital I/Os and relays.

> SSH/SSL security
> Remote I/O management using common SCADA or OPC servers with Modbus/TCP protocol
> 10/100 Ethernet interface with 1.5 Kv isolation (802.3 standard)
> Two serial ports, one RS-232 and one RS-422/485 with ESD protection
> Removable screw terminal blocks for all connectors and power input
> Two optically isolated digital I/Os (IO1-, IO1+, IO2-, IO2+)
> Modbus TCP to Modbus RTU/ASCII gateway

	XPress-DR+	XPress-DR+W	XPress-DR/XPress-DR-IAP	CoBox-FL-IAP	UDS1100-IAP	XPress-I/O	IntelliBox-I/O 2100
Serial Interface	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485
Asynchronous Serial Ports	2	2	1	2	1	2	2
Connector / Serial Ports	Screw Block - RS-485 / RJ45 - R-S232	Screw Block - RS-422/RS-485 RJ45 - RS-232	Screw Block / RJ45	DB25, Female, DCE / (1) DB9, Male, DTE / (1)	DB25, Female, DCE / (1) DB9, Male, DTE / (1)	Screw Block 2 Serial, 2 I/O, 1 Relay	Screw Block 2 Serial, 2 I/O, 1 Relay
Network Interface	10/100Base-T	10/100Base-T	10/100Base-T	10Base-T/FL	10/100Base-T	10/100Base-T	10/100Base-T
DIN-Rail Mount Case	•	•	•		WITH ADAPTER	WITH ADAPTER	WITH ADAPTER
Metal Case				•	•	•	•
Data Rate (Kbps)	300-230	300-230	300-115	300-115	300-230	300-230	300-230
Flash Memory	2MB	2MB	512Kb	512Kb	2MB	4MB	4MB
Input Power	9-30 VDC or 9-24 VAC	9-30 VDC or 9-24 VAC	9-30 VDC or 9-24 VAC	9-30 VDC	9-30 VDC or 9-24 VAC	9-30 VDC or 9-24 VAC	9-30 VDC or 9-24 VAC
Max Current Req. (mA)	2.3	2.3	4.2	9	1.5	2.3	2.3
Galvanic Isolation	•	•	•			•	•
FM Class 1 Div 2	•	•	•			•	•
Temperature Range Operating	-40ºC to 70º C -40ºF to 158ºF	-40ºC to 70º C -40ºF to 158ºF	0ºC to 60º C 32ºF to 140ºF	5ºC to 50º C 41ºF to 122ºF	-40ºC to 70º C -40ºF to 158ºF	-40ºC to 75º C -40ºF to 167ºF	-40ºC to 75º C -40ºF to 167ºF
Protocol Support	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, HTTP, Modbus TCP, Modbus ASCII/RTU, DF1 Multi-Master	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, HTTP, Modbus TCP, Modbus ASCII/RTU, DF1 Multi-Master	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, HTTP, Modbus TCP, Modbus ASCII/RTU, DF1 Multi-Master	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, HTTP, Modbus TCP, Modbus ASCII/RTU, DF1 Multi-Master	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, HTTP, Modbus TCP, Modbus ASCII/RTU, DF1 Multi-Master	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, Auto IP, SMTP, FTP,DNS TraceRoute, HTTP, ModBus TCP Modbus TCP, Modbus ASCII/RTU	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, Auto IP, SMTP, FTP,DNS TraceRoute, HTTP, ModBus TCP Modbus TCP, Modbus ASCII/RTU
Agency Approvals	UL, CSA, FCC, CE, TUV, CTick, VCCI, FM Class 1, Div. 2	UL, CSA, FCC, CE, TUV, CTick, VCCI, FM Class 1, Div. 2	UL, CSA,TUV, FCC, CE, FM Class I, Div. 2	CE, FCC B, TUV, C/UL	CE, FCC B, TUV, C/UL	UL, CSA, FCC, CE, TUV, CTick VCCI, FM Class 1, Div. 2	UL, CSA, FCC, CE, TUV, CTick VCCI, FM Class 1, Div. 2
Dimensions (L x W x H)	8.7 x 5.7 x 12.3 cm 3.45 x 2.25 x 4.85 in	8.7 x 5.7 x 28.5 cm 3.45 x 2.25 x 11.25 in	6.1 x 3.5 x 8.8 cm 2.4 x 1.4 x 3.5 in	18.2 x 15.5 x 3.9 cm 7.2 x 6.1 x 1.57 in	9.0 x 6.4 x 2.3 cm 3.5 x 2.5 x 0.9 in	11.5 x 10.9 x 2.3 cm 4.54 x 4.30 x 0.9 in	11.5 x 10.9 x 2.3 cm 4.54 x 4.3 x 0.9 in

Industrial Device Servers – Continued

Truly Automated Control of Remote Equipment

IntelliBox

Powered by Lantronix EventTrak™ technology (see page 2), the revolutionary IntelliBox®-I/O 2100 connects equipment to an IP network and proactively monitors events at specified intervals. When an event occurs, the rugged IntelliBox can automatically send predetermined, user-defined command(s) to the equipment, causing it to take appropriate corrective actions – without any user intervention. IntelliBox can send email notification that the event was detected and handled accordingly. For example, Intellibox can identify an unresponsive piece of equipment, automatically perform the corrective action such as a reboot, and notify the administrator. This can save time and money on service trips.

⤏ Proactively monitors attached equipment
⤏ Takes automatic actions based on user-defined settings
⤏ Automated reporting and notification via email or RSS
⤏ Secure remote access and control of digital I/O and relays
⤏ 10/100 Ethernet interface with 1.5 Kv isolation (802.3 standard)

Featuring Lantronix Evolution OS™, our powerful real-time networking operating system, IntelliBox provides an unprecedented level of intelligence and security to networked equipment. See page 2 for more information on Evolution OS™.

Value and Performance in our Best-Selling Device Servers

UDS IAP Family

With UDS device servers, virtually any piece of equipment with a serial port can be added to an Ethernet network in a matter of minutes! In Modem Emulation mode, the UDS is used to replace dial-up modems. The unit accepts modem AT commands on the serial port. It then establishes a network connection to the end device, leveraging network connections and bandwidth to eliminate dedicated modems and phone lines.

⤏ 1- and 2-port models
⤏ 2 MB of Flash
⤏ Software-selectable between RS-232, RS-422 RS-485
⤏ 15,000 Kv protection (galvanic ESD protection)
⤏ Wide range of protocols supported – ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP, TCP, UDP and Telnet
⤏ Power-over-ethernet (PoE) models available

PUT EQUIPMENT ON THE WIFI NETWORK IN MINUTES

WiBox

WiBox® is a cost-effective way to add the mobility of wireless connectivity to your existing equipment. Small enough to fit almost anywhere, WiBox networks virtually any device with a serial port in a matter of minutes. Location becomes irrelevant, and the time and money saved on difficult cable runs can be significant. WiBox features 802.11 b/g-to-serial communication, two DB9 serial ports, RS-232, RS-422 and RS-485 support, and 128-bit WEP, WPA and WPA2-personal encryption.

···> Ethernet or wireless communication
···> Ethernet-to-wireless bridging
···> Broad 9-30 VDC input power range
···> -40° to 70°C operating temperature range
···> Compatible with standard 802.11 b/g access points
···> Bulletproof security with 128-bit WEP and WPA-PSK, TKIP; 802.11i/WPA2-PSK
···> 256-bit AES (Rijndael) end-to-end encryption

EXPAND YOUR ETHERNET NETWORK VIA WIFI

WiSpan

The WiSpan™ wireless bridge gives virtually any piece of electronic equipment with an Ethernet port industry-standard wireless 802.11 b/g connectivity. WiSpan simplifies connectivity to devices when mobility is required and Ethernet cabling is impractical or expensive. Its built-in IEEE 802.11i-compliant security ensures data privacy and integrity. It features a rugged design and wide temperature range to easily handle harsh environments.

···> Fully developed TCP/IP network stack and OS
···> Bulletproof security with 128-bit WEP and WPA-PSK, TKIP; 802.11i/WPA2-PSK
···> FCC Class B, UL and EN EMC safety-compliant
···> -40° to 70°C operating temperature range

FIBEROPTIC CONNECTIVITY

CoBox-FL IAP

The CoBox-FL enables electronic devices to connect to an Ethernet network over a fiberoptic medium. It provides both ST Multi-mode Fiber (10Base-FL) and RJ45 (10Base-T) Ethernet interfaces. RS-232 and RS-485 serial connections are accomplished via DB9 and DB25 serial ports. CoBox-FL is ideal for applications that require long cable runs, EMI/RFI immunity, and the inherent electrical isolation offered by optical fiber.

···> RJ45 (10Base-T) and ST Multi-mode Fiber (10Base-FL) Ethernet interfaces
···> 128-bit encryption
···> Universal 100 VAC-to-240 VAC power adapter included

INDUSTRIAL ETHERNET SWITCHES —
NETWORKING FOR THE DEMANDING INDUSTRIAL ENVIRONMENT

Part of the DeviceLinx family of network-enablement products, XPress-Pro SW series managed and unmanaged Ethernet switches are designed to give you performance you can count on in harsh industrial environments.

Whether they're on the factory floor or in the field, these rugged products provide flawless communication when you need it most. Combined with our industrial device servers, this complete line of dependable and affordable switches delivers a robust industrial device networking solution.

XPress-Pro SW DIN-rail mountable hardened switches offer:

⋯⟩ Compliance with IEC61000-6-2 EMC generic immunity standard
⋯⟩ Full wire-speed forwarding rate
⋯⟩ Alarms for power failure by relay output (8-port models only)
⋯⟩ Optional fiberoptic interfaces

XPRESS-PRO INDUSTRIAL POWER SUPPLY

Product Description:
30W / 1.5A DIN-rail, 24 VDC industrial power supply

Input:
85 to 264 VAC (47 to 63 Hz) or 120 to 370 VDC

Output:
36W, 24 VDC, 0 to 1.5A

Overvoltage Protection:
27.6 to 32.4 Volts

Overload Protection:
105 to 160% rated output power

Protection Type:
Constant current limiting,
recovers automatically

Inrush Current:
15A/115 VAC or 30A/230 VAC

VERSATILITY AND POWER

XPress-Pro SW 94000 Series

The XPress-Pro SW 94000 is a managed Ethernet switch that allows the user to log in and create virtual LANs, configure ports, mirror ports and more. SW 94000 switches deliver the flexibility of eight 10/100 Ethernet ports with an optional fiberoptic interface. XPress-Pro SW 94000 switches can be DIN-rail, shelf or wall mounted, and come with dual redundant power inputs via a terminal block.

⋯⟩ 4K MAC addresses
⋯⟩ 256 KB buffer memory
⋯⟩ Redundant 2A max, 10 to 30 VDC power inputs
⋯⟩ -34° to 74°C (-29° to 165° F) operating temperature range
⋯⟩ UL1604: Class 1, Division 2-classified for use in hazardous locations

7.

PERFORMANCE AND VALUE

XPress-Pro SW 92000 Series

XPress-Pro SW 92000 switches offer eight 10/100 Ethernet ports and an optional fiberoptic interface. They can be DIN-rail, shelf or wall mounted, and come with dual redundant power inputs to fit applications requiring a tough, environmentally hardened Ethernet switch.

- 2048 MAC addresses
- 768 kilobit buffer memory
- Redundant 2A max, 10 to 48 VDC power inputs
- Wide -34° to 74°C (-29° to 165°F) operating temperature range
- UL1604: Class 1, Division 2-classified for use in hazardous locations

COMPACT AND FAST

XPress-Pro SW 52000 Series

XPress-Pro SW 52000 compact, fast Ethernet switches are equipped with 5-port 10/100Base-TX or 4-port 10/100Base-TX plus a fiberoptic interface. SW 52000 TX ports auto negotiate for 10/100 Mbps speed and auto detect full or half-duplex mode. The fiber port on the SW 52012F accommodates multi-mode SC with a fiberoptic connection between two nodes that can reach up to two kilometers.

- 2048 MAC addresses
- .1A max, 12 to 48 VDC power input
- 384 kilobit buffer memory
- -10° to 60°C (14° to 140°F) operating temperature range

INDUSTRIAL SWITCHES

	94000	92000	52000
Typical Distance*	2 Km	2 Km	2 Km
Nominal Wavelength*	1310 nm	1310 nm	1310 nm
Cable Type*	62.5/125 mm	62.5/125 mm	62.5/125 mm
Optical Budget*	15 dB	15 dB	15 dB
Serial Interface	8-port 10/100Base-TX, plus 1-port 100Base-FX (optional)	8-port 10/100Base-TX, plus 1-port 100Base-FX (optional)	5-port 10/100Base-TX or 4-port 10/100Base-TX plus 1-port 100Base-FX
Forward and Filtering Rate	14,880 pps for 10 Mbps 148,810 pps for 100 Mbps	14,880 pps for 10 Mbps 148,810 pps for 100Mbps	14,880 pps for 10 Mbps 148,810 pps for 100 Mbps
Address Table Size	4K MAC addresses	2048 MAC addresses	2048 MAC addresses
Latency	Less than 9.6 s	Less than 7.1 s	Less than 5.1 s
Reverse Polarity Protection	N/A	N/A	Yes
Network Interface	10/100 Mbps full/half-duplex, auto negotiation, auto MDI/MDIX	10/100 Mbps full/half-duplex, auto negotiation, auto MDI/MDIX	10/100 Mbps full/half-duplex, auto negotiation, auto MDI/MDIX
LED Indicators	Per Unit: Power Status (Power 1, Power 2), Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)	Per Unit: Power Status (Power 1, Power 2), Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow), Fault (Red)	Per Unit: Power Status, Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)
Management	RS-232 console, Telnet, SNMP V1 & V2, RMON, Web browser, TFTP	N /A	N/A
Alarm Contact	One relay output with current 1A @ 24 VDC	One relay output with current 1A @ 24 VDC	N/A
Standards	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1w	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX, IEEE802.3x	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX, IEEE802.3x
Power	Input Voltage: 10 to 30 VDC Input Current: 2A max. Power Consumption: 24 VDC @ 0.77A, 18.48 W max.	Input Voltage: 10 to 48 VDC Input Current: 1.5A max. Power Consumption: 24 VDC @ 0.55A, 18.48 W max.	Input Voltage: 12 to 48 VDC Input Current: 0.1A max. Power Consumption: 2.4W max.
Dimensions (L x W x H)	12.4 x 5.0 x 13.4 cm 4.92 x 1.97 x 5.31 in	10.9 x 5.0 x 13.5 cm 4.33 x 1.97 x 5.35 in	7.0 x 2.51 x 10.9 cm 2.76 x .99 x 4.33 in

*Fiber

Partner with a Recognized Leader in Quality

At Lantronix, we believe that our quality differentiates us as much from our competition as our innovative products.

Reflecting our unwavering commitment to quality, reliability and environmentally sound manufacturing processes, we are ISO 9001:2000 and ISO 14001 registered. These key certifications enable us to strengthen our market position through quality processes and environmental management systems and ensure that we meet or exceed government standards. When you choose Lantronix, you get the peace of mind that comes from partnering with a highly experienced technical innovator with a commitment to the highest quality, environmental and business principles.

Unmatched Technical Support

At Lantronix, we offer a level of worldwide customer and technical support unmatched by any in the industry. You won't find a more experienced, knowledgeable or courteous staff anywhere.

Lantronix customer support offers:

····> Free phone support with minimal hold time:
      6 a.m. – 5:30 p.m. PST, Monday through Friday
      (800) 422-7044

····> Virtual on-site support via Live Assist

····> Online chat

····> Web-based video configuration tutorials

····> Online knowledge base, FAQs and much more

Just give us a call or visit www.lantronix.com and find out why we're so proud of our support team and the services they provide.

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