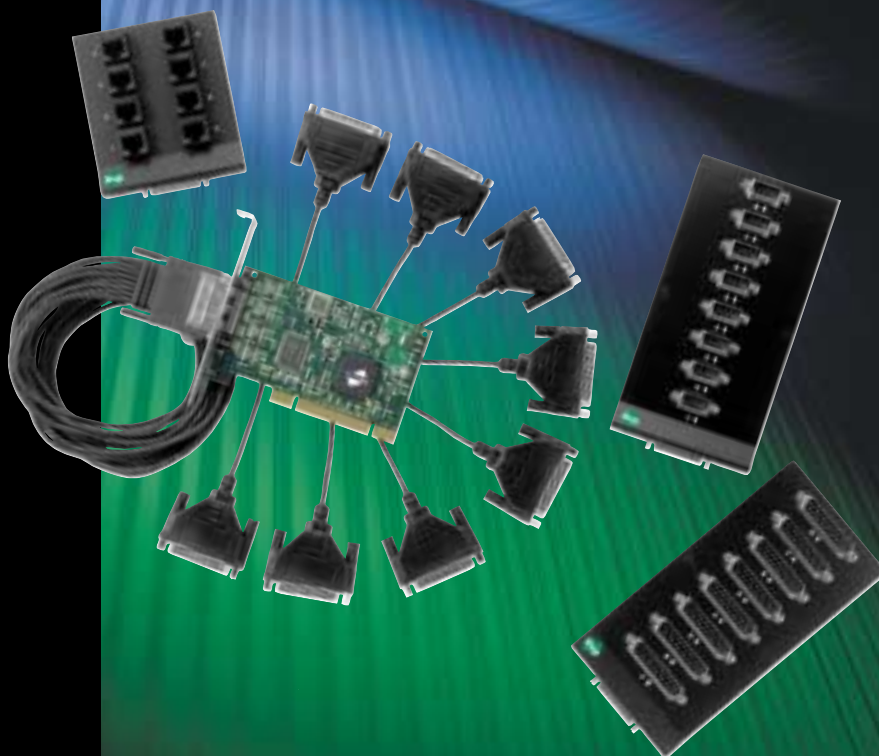# AccelePort Xp

Next generation asynchronous serial communications adapter

> Simultaneously supports data speeds of 921.6 Kbps, bi-directionally, on all ports

> Two to 16 ports provide wide application flexibility

> EIA-232 connections

> Advanced ASIC design incorporates an 80 MHz RISC processor

> PCI 2.2 compliant

> Universal PCI bus slot support - 3.3V and 5V

> Full modem control and hardware and software flow control

> Provides wide array of cabling options with SCSI HD-68 connections

> Surge protection on all signals for superior reliability

AccelePort Xp Overview

The AccelePort® Xp, the newest addition to the Digi International AccelePort asynchronous adapter PCI product line, was designed to further enhance multi-user (retail point-of-sale, industrial control processing, data collection and office automation) and Remote Access Service (RAS) implementations.

The AccelePort Xp adapter, available from two to 16 high-speed serial ports, provides wide application flexibility and superior CPU utilization. This is achieved through the adapter's Application Specific Integrated Circuit (ASIC), which is built around an 80 MHz RISC processor, providing the most advanced and highest performing design on the market today. And, unlike the competition, the AccelePort Xp communicates at 921.6 Kbps, bi-directionally, on *each and every* serial port with low latency.

The AccelePort Xp comes in a wide array of DB-9, DB-25, and RJ-45 connector options that include fan-out cables, external I/O boxes, and rack-mountable chassis. These options connect to the adapter using a SCSI HD-68 connector*, reducing cable clutter and increasing connection reliability due to it's small size.

PortAssist Manager, Digi's new Web browser-based management and reporting software, is another great feature that allows the AccelePort Xp to perform basic diagnostics, enhanced network administration and monitoring across all supported operating systems.

With the introduction of the AccelePort Xp, Digi has once again set a new standard in the asynchronous communications adapter market. Its excellent throughput, unrivaled feature set, high reliability, quality and ease of installation make this product an ideal solution for all your communication needs.

* The AccelePort 2-port uses two DB-9 male adapters.

Faster Serial Connections Are Critical

As terminals, printers, modems and video devices transfer data at ever-increasing speeds, the need for even faster serial connections becomes more critical. Trying to keep pace with today's high-speed serial devices using standard COM1/COM2 ports often causes a throughput bottleneck that leads to sluggish system performance and decreased productivity.

Supporting speeds of 921.6 Kbps bi-directionally on all ports, the AccelePort Xp provides two, four, eight and 16 ports that deliver all the speed you need for today's demands for bandwidth. This allows each port to take full advantage of the high transmission speeds that are possible with V.34, 56 Kbps and V.90 modems, ISDN terminal adapters and video equipment. Digi achieves its high performance by combining an on-board RISC-based processor with a propriet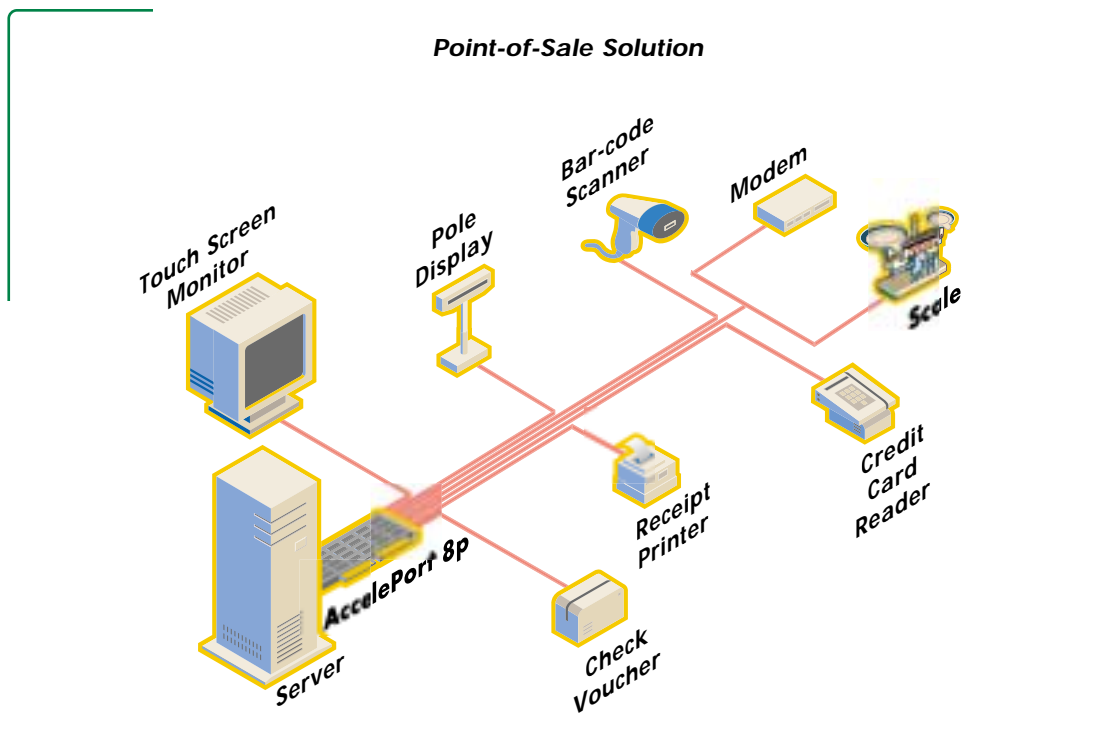ary ASIC (Application Specific Integrated Processor). The combination minimizes CPU utilization by handling serial I/O communication interrupts, character processing and data transfers more efficiently. As a result, applications run faster. Hardware/software flow control ensures absolute data integrity required for demanding remote access environments.

Speed and performance are further enhanced with high-performance components and a bus mastering design that enable the AccelePort Xp to manage data more effectively. The result is a complete, robust serial I/O solution for the most active remote access and "mission-critical" multi-user environments.
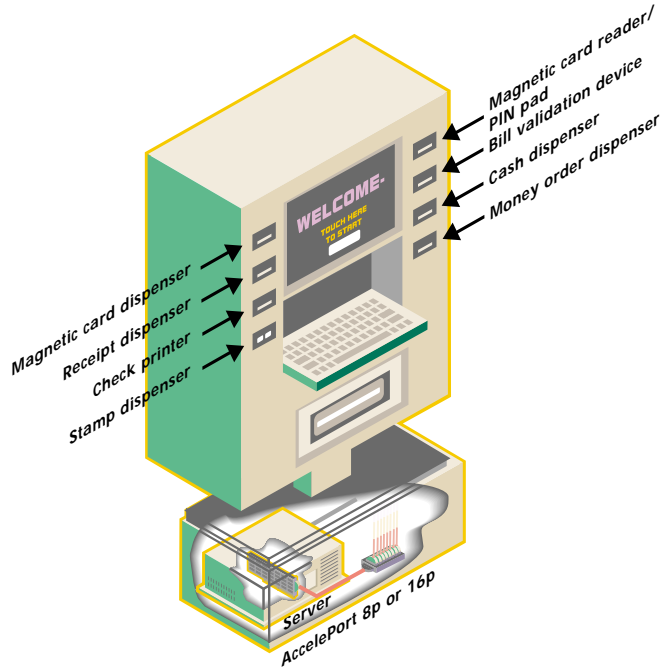
Supporting a broad array of the most popular operating systems with an in-house engineering staff dedicated to early support of new releases and platforms, Digi is the leading and most dependable source for serial I/O solutions in the market today.

Multi-user Applications

The AccelePort Xp is compatible with Microsoft Windows 2000 and NT 4.0, Novell NetWare, AIX and leading UNIX operating systems including SCO OpenServer and UnixWare, Sun Solaris, Linux and HP-UX. Terminals, printers, bar-scanners, video equipment, modems and most other asynchronous serial peripherals are supported.

Point-of-Sale Solution

Kiosk Solution

Magnetic card reader/
PIN pad
Bill validation device
Cash dispenser
Money order dispenser

Magnetic card dispenser
Receipt dispenser
Check printer
Stamp dispenser

WELCOME.
TOUCH HERE
TO START

Server
AccelePort 8p or 16p

With Digi's PortAssist Manager, end users can conduct simple management and diagnostic functions and monitor port status anywhere on the network using an easy-to-use browser-based application. And for even more functionality in Unix environments, we continue to offer Digi Port Authority (DPA) for quick and easy monitoring and diagnostics.

Remote Access Applications

When combined with external modems, the AccelePort Xp provides a superior server solution in dial-in/dial-out environments. Demand for high-speed remote access continues to increase dramatically. Branch offices want to tap into the resources of corporate LANs. Mobile users want to dial into networks for e-mail, downloading files, checking product shipments and more. Local users want dial-out access to communicate with other remote LANs. The AccelePort Xp provides this remote access functionality.

Four Reasons Why the AccelePort Xp is your Best Choice

• Our new Web-based PortAssist Manager provides monitoring capability anywhere on the network
• The Acceleport Xp "future proofs" your application to meet your end-users' growing needs:
  - Wide range of scalability, including 2-, 4-, 8 and 16-ports
  - Simultaneously supports data speeds of 921.6 Kbps, bi-directionally on all ports
  - Bus master design minimizes CPU utilization
  - Universal Bus Slot support for both 3.3V and 5V
  - Wide array of the latest operating system drivers
• The AccelePort Xp is designed to make your installs go smoothly:
  - Small form factor ensures easier installation in today's smaller servers
  - HD-68 SCSI cabling conserves room, reduces cable clutter and provides more reliable connections
  - Easy driver installation loads within minutes
• The AccelePort Xp will run reliably for years:
  - Advanced custom ASIC with on-board microprocessor provides even higher reliability
  - VPD (Vital Product Data) eases product identification, so there's no need to remove the card for trouble shooting
  - Backed by Digi's complete five-year warranty package and industry-leading technical support
  - Industry standard surge suppression on all signals

FEATURES

AccelePort Xp
> Two, four, eight and 16-port EIA-232 offerings on PCI platform
> Smallest form factor in the industry
> Universal bus slot support (PCI 3.3V and 5V)
> Vital Product Data (VPD)
> Full modem control
> Hardware/software handshaking support
> Industry standard surge suppression on all signals
> PCI 2.2 compliant
> 33Mhz PCI compliant
> Bus mastering design reduces CPU utilization
> Software programmability allows easy upgrades

CONNECTORS

AccelePort Xp 2-port
> Two DB-9 male connectors

AccelePort Xp 4- and 8-port
> Single HD-68 female connector
> Connector options:
  • DB-25 connector box with HD-68 connector cable
  • RJ-45 connector box with HD-68 connector cable
  • DB-9 connector box with HD-68 connector cable
  • DB-25 and DB-9 fan-out cables

AccelePort Xp 16-port
> Dual HD-68 female connectors
> Connector options:
  • DB-25, DB-9 or RJ-45 connector box with HD-68 connector cable (two required for 16-port models)
  • DB-25 or RJ-45 desktop or 19" rack mountable enclosures with two HD-68 connector cables
  • DB-25 or DB-9 fan-out cables (two required for 16 port models)
> HD-68 male to DB-78 female converter for 4-, 8- and 16-port legacy purposes

SYSTEM REQUIREMENTS

PCI
> One 32-bit slot

REGULATORY APPROVALS

> FCC Part 15, Class B
> EN55022, Class B
> AS3548
> EN55024
> EN60950
> UL 1950
> CSA 22.2 No. 950

MODEL/PART NUMBERS

Model		Part Numbers
PCI EIA-232		
AccelePort Xp 2-port	DB-9 cables not included	77000659
AccelePort Xp 4-port	cables not included, see below	77000706
AccelePort Xp 4-port	includes DB-25M fan-out cables	70001549
AccelePort Xp 8-port	cables not included, see below	77000707
AccelePort Xp 8-port	includes DB-25M fan-out cables	70001548
AccelePort Xp 16-port	cables not included, see below	77000708
AccelePort Xp 16-port	includes RJ-45 mounting rack	70001557
AccelePort Xp 16-port	includes DB-25 mounting rack	70001550
Required Accessories		
4-port DB-25M DTE fan-out cable		76000522
4-port DB-9M DTE fan-out cable		76000528
4-port DB-25F DTE fan-out cable		76000532
4-port DB-9F DTE fan-out cable		76000530
4-port DB-25M DTE connector box with cable		76000524
4-port DB-9M DTE connector box with cable		76000560
4-port RJ-45 DTE connector box with cable		76000526
8-port DB-25M DTE fan-out cable		76000523
8-port DB-9M DTE fan-out cable		76000529
8-port DB-25F DTE fan-out cable		76000533
8-port DB-9F DTE fan-out cable		76000531
8-port DB-25M DTE connector box with cable		76000525
8-port DB-9M DTE connector box with cable		76000561
8-port RJ-45 DTE connector box with cable		76000527
10-foot HD-68 pin cable (use when additional length required)		76000559
HD-68M to DB-78F converter		76000534

POWER REQUIREMENTS

AccelePort 2p
> +5V +/-5%   630mA
> +12V +/-5%   35mA

AccelePort 4p
> +5V +/-5%   640mA
> +12V +/-5%   75mA

AccelePort 8p
> +5V +/-5%   640mA
> +12V +/-5%   150mA

AccelePort 16p
> +5V +/-5%   1.45A
> +12V +/-5%   300mA

OPERATING SYSTEMS

> SCO OpenServer®
> Linux
> UnixWare® 7
> Sun® Solaris™ (SPARC/Intel®)
> Microsoft® Windows 2000*
> Microsoft Windows NT*
> Novell® NetWare®
> AIX®
> HP-UX® 10.x / 11.x*

Drivers ship with product on CD-ROM. Also available on Web-site. For an updated list of software support via Digi and other third party vendors, please contact your Digi sales representative or visit our Web-site at http://www.digi.com

* Available on CD mid-December 2000

DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support, a strong five-year warranty and a 30-day money-back guarantee.

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