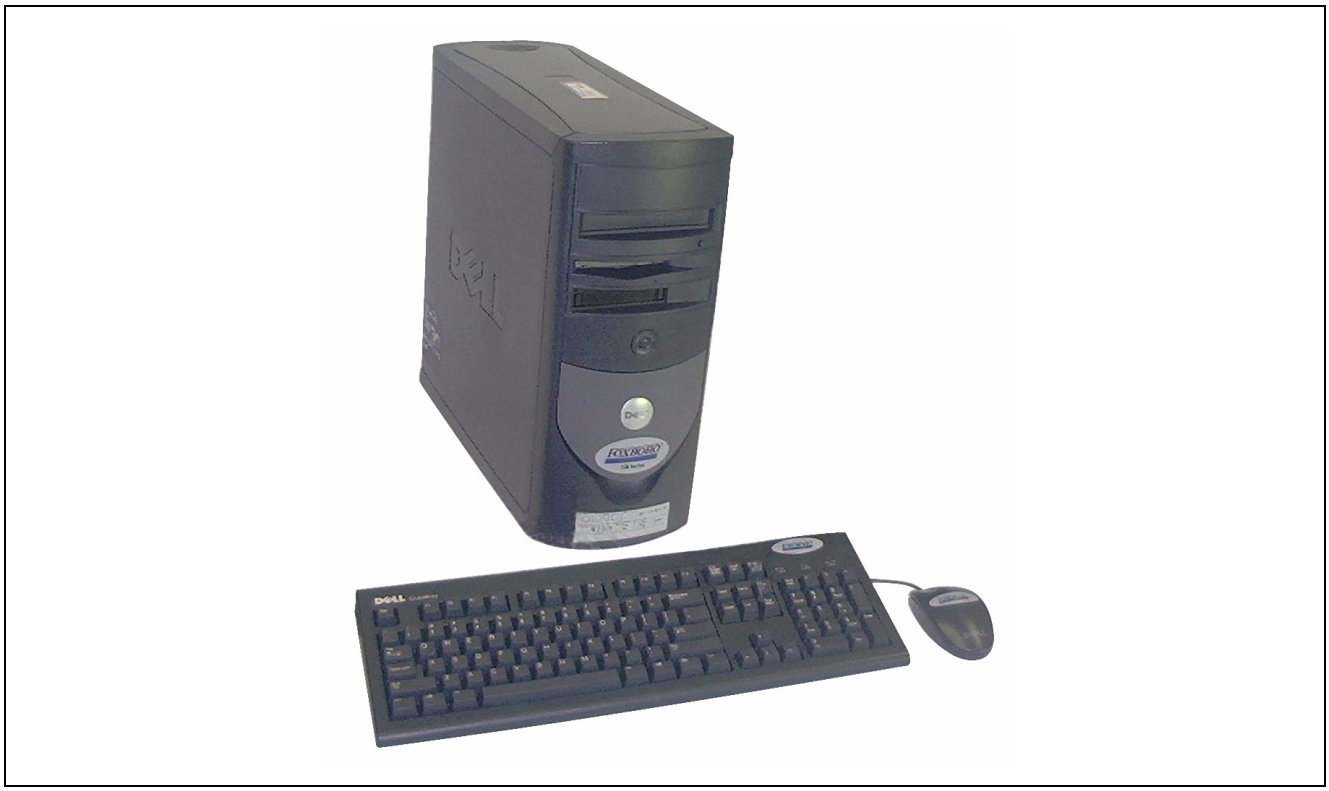
FOXBORO®

PSS 21H-4D12 B4

I/A Series® Hardware
Model P93 Workstation for Windows®
Windows NT® Operating System



The Model P93 Workstation is a Pentium 4 PC with Windows NT 4.0 operating system. It can be used with I/A Series or Wonderware workstation software. It can also provide a platform for Invensys, third-party and user-written applications.

The Model P93 Workstation, with available Foxboro I/A Series AW70, WP70, WINAPP, WINHST, or model coded station software licenses can:

- Host I/A Series control stations
- Support data communications to directly connected process I/O devices
- Serve as an application platform
- Serve as a human to machine interface (HMI) station
- Function on Ethernet or Nodebus-based control systems.

As a multipurpose workstation running the Windows NT operating system, the Model P93 Workstation supports execution of system applications, data communications for a broad range of applications, file serving capabilities, and display of graphics and text. It also interfaces with corporate networks at a local or worldwide level.

The Model P93 Workstation supports one or two monitors (purchased separately), a mouse or optional trackball, and an alphanumeric keyboard.

The Model P93 Workstation features a choice of Enhanced Internal Device Electronics (EIDE) or Small Computer System Interface (SCSI) hard disk drive and up to 1 GB of ECC RAM memory. The processor supports the following internal devices: a system hard drive, a CD-RW drive, and an optional tape backup drive. The floppy disk controller supports one disk drive.

Client/server communication is accomplished using the TCP/IP networking protocol with the integrated network port or optional network interface card (NIC).

As symbolized by the **CE** logo, the Model P93 Workstation conforms to the applicable European Union directives.

To interface with an I/A Series Nodebus work, the Model P93 Workstation requires an Ethernet network interface card and a Dual Nodebus 10BaseT Interface (DNBT) module or Dual Nodebus Interface Extender (DNBX) module.

The Model P93 Workstation contains the following elements:

- Intel® Pentium® 4 processor
- 256 MB ECC RAM (expandable to 1 GB)
- Parallel interface port for printer
- Internal, 3.5-inch, 1.44 MB disk drive
- AGP video slot
- Two serial interface ports for:
  – Dual Nodebus 10BaseT Interface (DNBT)
  – Dual Nodebus Interface Extender (DNBX)
  – Printers
  – Other serial devices
- Internal EIDE or SCSI system hard drive
- Internal CD-RW drive
- Integrated audio
- Integrated 10/100BaseT Ethernet port
- PS2 Mouse and keyboard.

The Model P93 Workstation offers the following options:

- Internal tape backup drive
- One Ethernet network interface card
- One multi-port serial expansion card (4 ports)
- Allen-Bradley® PKTX interface card for Allen-Bradley Data Highway Plus™
- Dual monitor graphics card
- Trackball.

FUNCTIONAL SPECIFICATIONS

Processor Type
Intel Pentium 4 processor

Memory
256 MB ECC RAM standard (512 MB, 768 MB, or 1 GB RAM optional)

Devices Served
PERIPHERALS
EIDE 20 GB hard drive or SCSI 18 GB hard drive
10/20 GB tape drive (EIDE or SCSI)
CD-RW

CONTROLLER PERIPHERALS
One internal, 1.44 MB, 3.5-inch disk drive

AGP VIDEO INTERFACE*
- Single Card – supports one monitor
- Optional Dual Card – supports two monitors

INTERFACES TO EXTERNAL DEVICES
- PS/2 bus mouse or optional trackball
- PS/2 alphanumeric keyboard
- Serial interface for printer (alarms/text)
- Dual Nodebus Interface (DNBT)
- Dual Nodebus Interface Extender (DNBX).

Internal Diagnostics
Self-checking is performed at power-up.

Screen Presentation
REFRESH RATE
Up to 85 Hz

COLORS
Up to 65536**

RESOLUTION
Up to 1600 x 1200 pixels

Video Output
TYPE
VGA analog RGB with horizontal and vertical sync

* For information on available monitors, refer to PSS 21H-4D1 B3, Workstation Components.
**May be limited by specific software specifications

FUNCTIONAL SPECIFICATIONS (Cont.)

Two Serial Interface Ports
TYPE
EIA RS-423 (RS-232-C compatible)

One Parallel Interface Port
Centronics interface for printer

Ethernet Interface Communications
- PCI Ethernet network interface card providing connection to Ethernet data bus (AUI, 10Base2/5, and 10/100BaseT)
- Integrated Ethernet port (10/100BaseT)

Nodebus Interface Communications
TYPE
IEEE 802.3 data bus and EIA RS-423 control bus*

MAXIMUM DISTANCE FROM NODEBUS
- 100 m (330 ft) – using Dual Nodebus 10BaseT Interface Module (DNBT)
- 450 m (1500 ft) – using Dual Nodebus Interface Extender Module (DNBX)

Power Requirements
INPUT POWER
- 115 or 220 V ac (nominal), manual select
- 47 to 63 Hz

POWER CONSUMPTION
250 W maximum

* Refer to PSS 21H-7B2 B4, Dual Nodebus Interface and Dual Nodebus Interface Extender, for information on how the control bus is used.

ENVIRONMENTAL SPECIFICATIONS

Operating
TEMPERATURE
10 to 35°C (50 to 95°F)

RELATIVE HUMIDITY
20% to 80%, noncondensing

Storage
TEMPERATURE
-40 to + 65°C (-40 to +149°F)

RELATIVE HUMIDITY
20% to 80%, noncondensing

REGULATORY COMPLIANCE

Safety Certifications
USA
UL (UL Std 1950)

CANADA
CSA (CSA C22.2 No. 950)

EUROPE
TUV (CENELEC EN60950)

EMC
USA
FCC Part 15

CANADA
DOC

EUROPE
EN55024, EN61000-3-2, EN61000-3-3, and EN55022

PHYSICAL SPECIFICATIONS

Dimensions and Mass
PROCESSOR
Height
426 mm (16.8 in)
Width
180 mm (7.1 in)
Depth
447 mm (17.6 in)
Mass
12.7 kg (28 lbs)

Dimensions and Mass (Cont.)
KEYBOARD
Height
50.7 mm (2.0 in)
Width
456 mm (18.0 in)
Depth
171 mm (6.75 in)
Mass
1.8 kg (4.0 lbs)

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