

## **I/A Series® Hardware Workstation Processor 70 Windows NT® Operating System**



The Workstation Processor 70 (WP70) with the Microsoft® Windows NT operating system, in conjunction with its peripherals, provides an operator interface for supervisory control and monitoring on the I/A Series system. The WP70 functions on an Ethernet network with other I/A Series stations, such as Micro-I/A™ stations or AW70 stations, or on an information network such as TCP/IP. Alternately, it can be used on an I/A Series Nodebus (Windows NT-based or UNIX™-based). As an operator's station, the WP70 provides access to displays, trending, alarming, and system management functions.

In addition to the processor, the WP70 comes with one of several video monitors, a mouse or optional trackball, an alphanumeric keyboard, optional annunciator keyboards and an optional touchscreen.

The Workstation Processor 70 Pentium™ III processor-based workstation features a hard disk of 20 GB and up to 512 MB of RAM. The Enhanced Internal Device Electronics (EIDE) interface supports the following internal devices: a system hard drive, a CD-ROM drive, and an optional 10/20 GB tape drive. The floppy controller supports a disk drive.

An integrated Ethernet communications port allows the WP70 to interface with an information network such as TCP/IP or I/A Series Ethernet. To interface with an I/A Series Nodebus, the WP70 requires an Ethernet interface card and a Dual Nodebus Interface Extender module (DNBX) or Nodebus with Dual Nodebus Interface (DNBT).

The Workstation Processor 70 is a mini tower workstation.

As symbolized by the **CE** logo, this workstation conforms to the applicable European Union Directives.

The Workstation Processor 70 contains the following elements:

- Pentium III processor
- 128 MB RAM (expandable to 512 MB RAM)
- Two serial interface ports for supporting:
  - GCIO Interface
  - Dual Nodebus Interface (DNBT)
  - Dual Nodebus Interface Extender (DNBX)
  - Printers
- EIDE interface supporting the following internal devices:
  - One system hard drive: 20 GB
  - One CD-ROM drive
  - Optional 10/20 GB tape drive<sup>(1)</sup>
- Parallel interface port for printer
- Internal 3.5-inch, 1.44 MB disk drive
- Monitor (with optional touchscreen)
- Integrated audio and video generator
- Mouse or optional trackball
- Keyboard
- Options:
  - Optional internal 10/20 GB tape drive<sup>(1)</sup>
  - Second Ethernet adapter
  - Printer (dot-matrix, InkJet™)
  - Dual or quad monitor graphics card
  - GCIO interface with one or two annunciator keyboards and an optional touchscreen controller.

## FUNCTIONAL SPECIFICATIONS

### Processor Type

Pentium III

### Program Memory

128 MB (256 MB, 384 MB or 512 MB, optional)

### Devices Served

#### EIDE PERIPHERALS

One internal system hard drive and one each of the following drives connected to the EIDE ports:

CD-ROM drive and 10/20 GB tape drive

#### CONTROLLER DEVICES

One internal 1.44 MB, 3.5-inch disk drive

#### VIDEO INTERFACE (UP TO 4 WITH OPTIONAL DUAL/QUAD CARD)

Non-interlaced

- 15-inch Color Video Monitor(a),
- 17-inch Color Video Monitor(a),
- 20.1-inch Flat LCD Monitor, or
- 21-inch Color Video Monitor

#### INTERFACES TO OTHER DEVICES

- Mouse or Optional Trackball (PS/2 bus)
- Alphanumeric Keyboard
- Annunciator and/or Annunciator/Numeric Keyboards (one or two) attached through a GCIO interface
- Printer for Alarms/Text
- Dual Nodebus Interface (Twisted Pair (TP)) [DNBT]
- Dual Nodebus Interface Extender [DNBX]
- Optional Touchscreen

(a) Available in Northern Hemisphere version only.

### Internal Diagnostics

Self-checking performed at power-up. Run-time checks can be performed during operation.

### Screen Presentation

#### REFRESH RATE

Up to 75 Hz

#### COLORS

256

#### RESOLUTION (PIXELS)

Up to 1280 x 1024

### Video Output

#### TYPE

Analog RGB with Horizontal and Vertical Sync

### Serial Interface Communications

#### TYPE

EIA RS-423 (RS-232-C compatible)

### Parallel Interface Communications

Centronics Interface for Printer

### Ethernet Interface Communications

PCI Ethernet card providing connection to Ethernet data bus (AUI, 10Base2/5, 10BaseT)  
Integrated Ethernet port (10/100BaseT)

(1) One tape drive is required per I/A Series network for backup.

## FUNCTIONAL SPECIFICATIONS (Cont.)

### Nodebus Interface Communications

#### TYPE

IEEE 802.3 data bus and EIA RS-423 control bus(a)

MAXIMUM DISTANCE FROM NODEBUS USING DUAL NODEBUS 10BASET INTERFACE MODULE (DNBT)

91 m (300 ft)

MAXIMUM DISTANCE FROM NODEBUS USING DUAL NODEBUS INTERFACE EXTENDER MODULE (DNBX)

450 m (1500 ft)

(a) Refer to PSS 21H-7B2 B4 for information on how the control bus is used.

### Power Requirements

#### MONITOR INPUT POWER

120 or 240 V ac, 47 to 63 Hz, auto-switching

#### MONITOR POWER CONSUMPTION

300 W maximum

#### MINI TOWER INPUT POWER

120 or 240 V ac, 47 to 63 Hz, manual select

#### MINI TOWER POWER CONSUMPTION

200 W maximum

## ENVIRONMENTAL SPECIFICATIONS

### Operating

#### TEMPERATURE (PROCESSOR)

10 to 35°C (50 to 95°F)

#### RELATIVE HUMIDITY (PROCESSOR)

8% to 80%, noncondensing

#### TEMPERATURE (MONITOR)

10 to 40°C (50 to 104°F)

#### RELATIVE HUMIDITY (MONITOR)

15% to 80%, noncondensing

### Storage

#### TEMPERATURE (PROCESSOR)

-40 to + 65°C (-40 to +149°F)

#### TEMPERATURE (MONITOR)

-20 to + 60°C (-4 to +140°F)

#### RELATIVE HUMIDITY (MONITOR)

5% to 95%, 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

EN50082-1, EN55011, and EN55022

**PHYSICAL SPECIFICATIONS****Dimensions and Mass****KEYBOARD***Height*

41.0 mm (1.6 in)

*Width*

483 mm (19.0 in)

*Depth*

213 mm (8.4 in)

*Mass*

1.8 kg (4.0 lbs)

**MINI-TOWER***Height*

444 mm (17.5 in)

*Width*

206 mm (8.1 in)

*Depth*

437 mm (17.1 in)

*Mass*

14.3 kg (33 lbs)

**15-INCH MONITOR***Height*

381 mm (15 in)

*Width*

362 mm (14.2 in)

*Depth*

400 mm (15.7 in)

*Mass*

14.0 kg (30.8 lbs)

**Dimensions and Mass (Cont.)****17-INCH MONITOR***Height*

430 mm (16.9 in)

*Width*

427 mm (16.8 in)

*Depth*

483 mm (19.0 in)

*Mass*

19 kg (41.8 lbs)

**20.1-INCH FLAT LCD MONITOR***Height*

581 mm (22.9 in)

*Weight*

498 mm (19.6 in)

*Depth*

262 mm (10.3 in)

*Mass*

12.5 kg (27.6 lbs)

**21-INCH MONITOR***Height*

504 mm (19.8 in)

*Width*

498 mm (19.6 in)

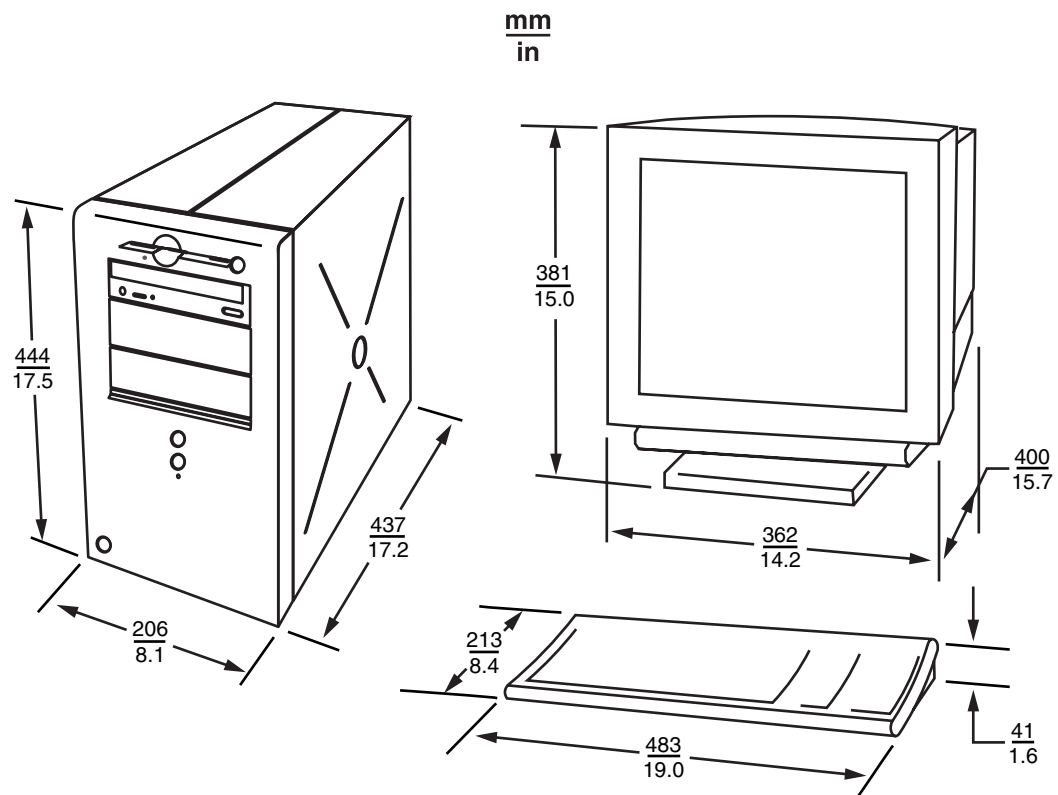
*Depth*

474 mm (18.7 in)

*Mass*

31 kg (68.3 lbs)

**DIMENSIONS—NOMINAL (15-INCH MONITOR ONLY)**







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MB 021

Printed in U.S.A.

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