

## **I/A Series® Hardware Application Workstation 70, Style A Windows NT® Operating System**



The Application Workstation 70 (AW70), Style A performs the tasks of:

- An entry level system, hosting Micro-I/A™ stations and/or supporting data acquisition, control, and monitoring functions related to directly connected process I/O devices
- An application platform and human interface station in an Ethernet or Nodebus-based system.

As a multipurpose workstation running the Microsoft® Windows NT operating system, the AW70, Style A, performs the execution of system applications, data acquisition and processing for a broad range of applications, file serving capabilities, and displays of graphics and text. It also interfaces with corporate communication networks at a local or worldwide level.

In addition to the processor, the AW70, Style A comes with one of several video monitors, a mouse or optional trackball, an alphanumeric keyboard, optional annunciator keyboards and an optional touchscreen.

The AW70, Style A Pentium™ III processor-based workstation features hard disk storage 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, CD-ROM drive, and optional 10/20 GB tape drive. The floppy controller supports one disk drive.

Client/server communication is accomplished using the TCP/IP networking protocol.

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

An Ethernet communications port allows the AW70 to interface with an information network such as TCP/IP. To interface with an I/A Series Nodebus, the AW70 requires an Ethernet interface card and a Dual Nodebus Interface twisted-pair module (TP) (DNBT) or Dual Nodebus Interface Extender Module (DNBX).

The AW70, Style A contains the following elements:

- Pentium III processor
- 128 MB RAM (expandable to 512 MB)
- Two serial interface ports for:
  - GCIO Interface
  - Dual Nodebus Interface (TP) (DNBT)
  - Dual Nodebus Interface Extender (DNBX)
  - Printers
- Parallel interface port for printer
- Internal, 3.5-inch, 1.44 MB disk drive

- Monitor (with optional touchscreen)
- 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>
- Integrated audio and video generator
- Integrated Ethernet port
- Mouse or optional trackball
- Keyboard
- Options:
  - Internal 10/20 GB tape drive<sup>(1)</sup>
  - One PCI Ethernet adapter
  - Multi port serial expansion card (4 ports)
  - Printers (dot-matrix, InkJet™)
  - Allen-Bradley™ PKTX Interface Card for Allen-Bradley Data HighwayPlus™
  - Dual or quad monitor graphics card
  - GCIO interface with one or two annunciator keyboards and an optional touchscreen

## FUNCTIONAL SPECIFICATIONS

### Processor Type

Pentium III

### Program Memory

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

### Devices Served

#### EIDE PERIPHERALS

One internal system hard drive and the following internal devices connected to the EIDE ports: one CD-ROM drive and one 10/20 GB tape drive

#### CONTROLLER PERIPHERALS

One internal, 1.44 MB, 3.5-inch disk drive

#### VIDEO INTERFACE (UP TO 4 MONITORS 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 EXTERNAL DEVICES

- Mouse or Optional Trackball (PS/2 bus)
- Alphanumeric Keyboard
- Annunciator and/or Annunciator/Numeric Keyboards (one or two) attached through a GCIO
- Printer for Alarms/Text
- Dual Nodebus Interface (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

VGA Analog RGB with Horizontal and Vertical Sync

### 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 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, Dual Nodebus Interface and Dual Nodebus Interface Extender, for information on how the control bus is used.

### Power Requirements

#### MONITOR INPUT POWER

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

#### MONITOR POWER CONSUMPTION

300 W maximum

#### MINI TOWER INPUT POWER

115 or 220 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 85%, 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 (17.2 in)

*Mass*

14.3 kg (33 lbs)

**15-INCH DISPLAY***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 DISPLAY***Height*

430 mm (16.9 in)

*Width*

427 mm (16.8 in)

*Depth*

483 mm (19.0 in)

*Mass1*

9 kg (41.8 lbs)

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

581 mm (22.9 in)

*Width*

498 mm (19.6 in)

*Depth*

262 mm (10.3 in)

*Mass*

12.5 kg (27.6 lbs)

**21-INCH DISPLAY***Height*

504 mm (19.8 in)

*Width*

498 mm (19.6 in)

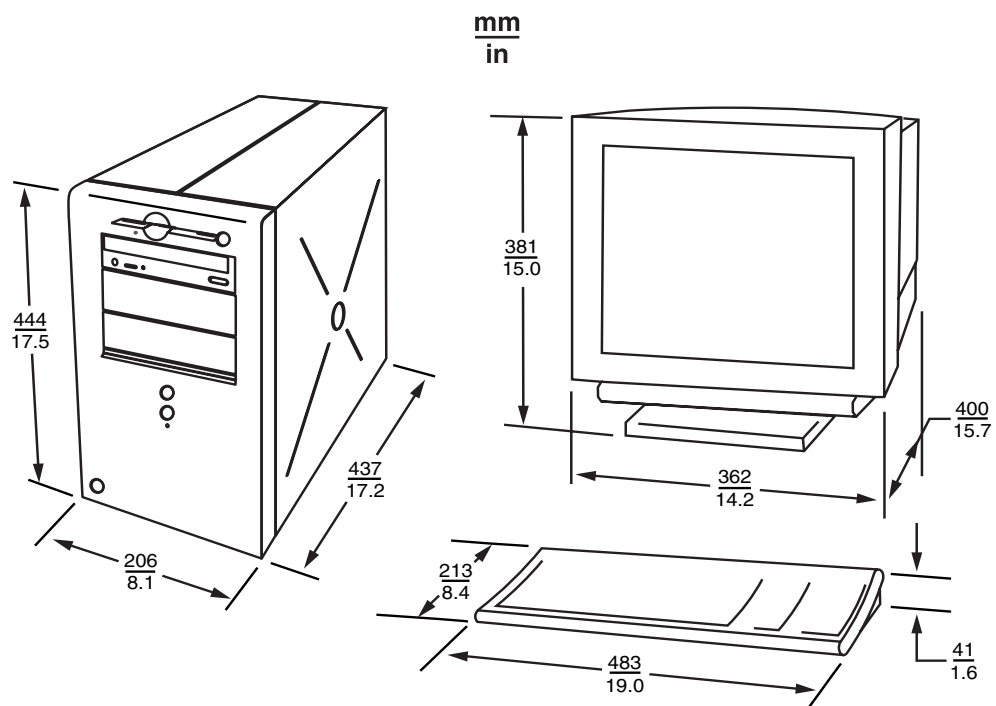
*Depth*

474 mm (18.7 in)

*Mass*

31 kg (68.3 lbs)

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







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