

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



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

- A premium 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 B, performs the execution of system applications, data acquisition and processing related to a broad range of applications, file serving capabilities, and the display 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 B 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 B Pentium™ III processor-based workstation features hard disk storage of 18 GB and 512 MB of RAM. The Small Computer System Interface (SCSI) supports a system disk, 10/20 GB tape drive, and RAID1 or RAID5 hard drive arrays. The controller supports one disk drive.

Client/server communications are accomplished using the TCP/IP networking protocol.

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 10BaseT Interface module (DNBT) or Dual Nodebus Interface Extender module (DNBX).

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

The AW70, Style B contains the following elements:

- Pentium III Processor
- 128 MB RAM (expandable to 512 MB)
- Two serial interface ports supporting:
 - GCIO interface
 - Dual Nodebus Interface (Twisted Pair (TP)) (DNBT)
 - Dual Nodebus Interface Extender (DNBX)
 - Printers
- Parallel interface port for printer
- SCSI supporting the following internal devices:
 - One system disk drive: 18 GB

- Internal 10/20 GB tape drive
- Internal CD-ROM drive
- Internal 3.5-inch, 1.44 MB disk drive
- Monitor (with optional touchscreen)
- Integrated audio and video generators
- Integrated 10/100BaseT Ethernet port
- Mouse or optional trackball
- Keyboard
- Options:
 - One Ethernet adapter
 - Multi port serial expansion card (4 ports)
 - Printers (dot-matrix, InkJet™)
 - Allen-Bradley™ PKTX Interface Cards for Allen-Bradley Data HighwayPlus
 - Dual or quad monitor graphics card
 - GCIO interface with one or two annunciator keyboards and an optional touchscreen controller
 - RAID1 or RAID5 hard drive arrays.

FUNCTIONAL SPECIFICATIONS

Processor Type

Pentium III

Program Memory

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

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)

(a) Available in Northern Hemisphere version only.

Devices Served

SCSI PERIPHERALS

One internal system disk drive, one CD-ROM drive, one 10/20 GB tape drive connected to the SCSI port, and external RAID1/5 hard drive arrays.

CONTROLLER PERIPHERALS

One internal 1.44 MB, 3.5-inch disk drive

VIDEO INTERFACE (UP TO 4 MONITORS WITH 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 Interface
- Printer for Alarms/Text
- Dual Nodebus Interface (Twisted-Pair) [DNBT]
- Dual Nodebus Interface Extender [DNBX]
- Optional Touchscreen

FUNCTIONAL SPECIFICATIONS (Cont.)

One Parallel Interface Port

Centronics interface for printer

Nodebus Interface Communications

TYPE

IEEE802.3 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)

Ethernet Interface Communications

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

Integrated Ethernet Port (10/100BaseT)

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

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

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 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)

Width

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)

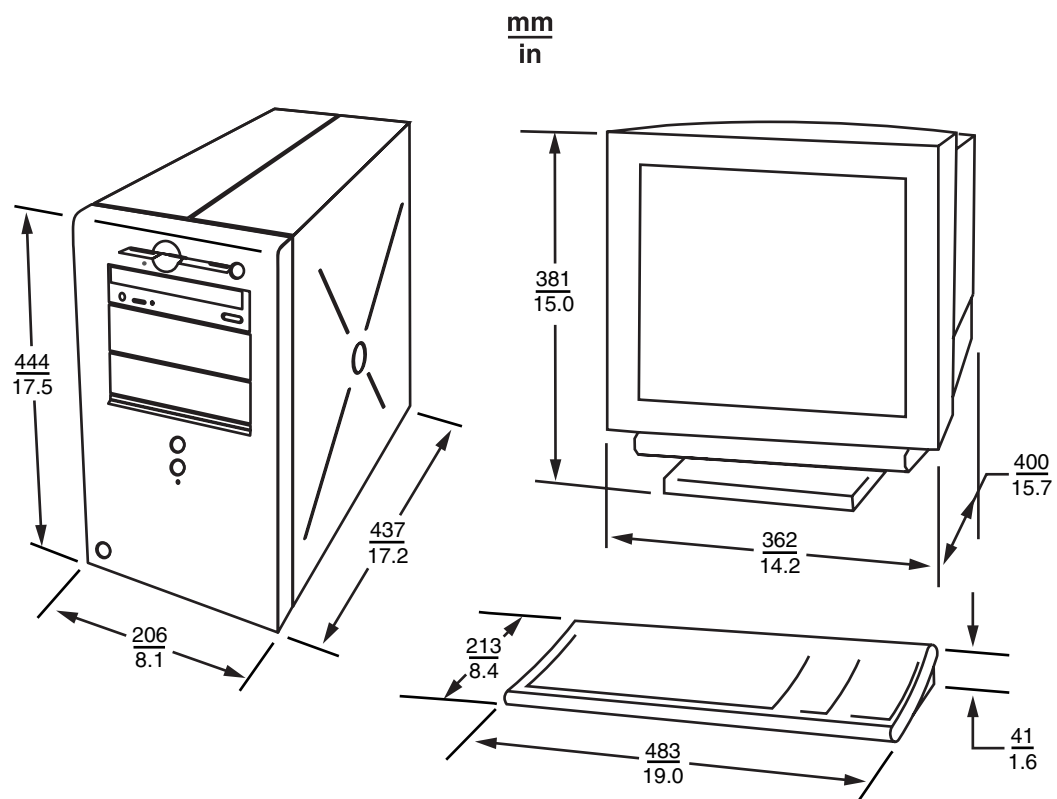
Depth

474 mm (18.7 in)

Mass

31 kg (68.3 lbs)

DIMENSIONS-NOMINAL (15-INCH MONITOR ONLY)



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