I/A Series® Hardware
Mobile Workstation Premium Indoor and All-View Units

The fully integrated Mobile Workstation allows you to exchange information with your I/A Series system and/or corporate network while you are on the move throughout the plant – no strings (or wires) attached.

These wireless portable workstations provide new solutions for remotely accessing your I/A Series systems to give you more flexibility, convenience and efficiency.

SVGA SCREEN

The *Premium Indoor Unit* and the *All-View Unit* both employ a color 8.4-inch (213 mm) diagonal SVGA LCD display with 800x600 pixel resolution.

The *Premium Indoor Unit* has an active matrix color LCD display that offers the best quality for indoor viewing.

The *All-View Unit* has a color transflective (CTF) LCD display, which is suitable for sunlight and is the only unit that is viewable outdoors. The All-View Unit may be used indoors as well, but not with the same visual quality as the Premium Indoor Unit.

WIDE RANGE OF ACCESSORIES

Choose from a variety of peripherals and accessories that your mobile workers need – whether they are working in the plant in remote locations or at their desks. A few of the options are:

- Optional Cases – Optional slip case or harsh environment case provides protection for the computer.

- Desktop Stand – This stand can be adjusted to hold the workstation at a convenient angle for desktop viewing.

- Optional Keyboard – The keyboard provides a more conventional method of inputting data (rather than using the pen).

- Optional Wireless LAN Adapter PC Card (United States and Canada only) – The unit can be ordered with or without this feature depending upon your needs. However, a wireless LAN adapter is necessary to provide mobile communications with an I/A Series system.

Refer to Table 1 for a complete list of the options.

ENVIRONMENTAL CONSIDERATIONS

The Mobile Workstation is designed for use in general purpose areas. It has not been qualified for use in special environments, such as Class 1 Division 2 environments, where intrinsic safety is required. Using a slip case or a harsh environment case offers some protection for the Mobile Workstation against dust and mist, but neither of these cases render the workstation waterproof or submersible.

FUNCTIONAL SPECIFICATIONS

Form Factor
Full-screen, tablet-size, pen computer

Microprocessor
233 MHz Pentium MMX
32 KB on-Chip (L1) Cache
512 KB L2 Cache

System Memory
32 MB SDRAM

BIOS
512 KB Flash ROM

Bus Architecture
PCI, Cardbus

Operating Systems
Windows 98 with Pen Services 2.0 and PenX 1.51

Hard Disk Drive
4.1 GB, Ultra ATA, shock-mounted

Expansion
Two Type II or one Type III PC card slots, version 3.0,
CardBus, Zoomed Video

Display
COLOR TRANSFLECTIVE (CTF) SVGA LCD
  Outdoor and indoor use
  Backlit, 213 mm (8.4 in) diagonal
  0.21 mm dot pitch
  800x600 SVGA resolution, up to 4,096 colors
ACTIVE MATRIX (TFT) SVGA COLOR LCD
  Backlit, 213 mm (8.4 in) diagonal
  0.21 mm dot pitch
  800x600 SVGA resolution, up to 262,144 colors

Digitizer
Electromagnetic tablet
1096 points/inch resolution
133 points/second sampling rate

Audio
Sound Blaster Pro compatible
Built-in microphone and speaker
Stereo microphone jack
Stereo headphone jack
Line-in and line-out jacks on port replicator

Interfaces
BUILT-IN CONNECTORS
  Keyboard (PS/2-style connector)
  Serial A (RS-232-C)
  Parallel
  Monitor (DDC)
  USB
  Diskette drive
  dc-in

Interfaces (Cont.)
BUILT-IN CONNECTORS (CONT.)
  Microphone
  Headphones (stereo)
INFRARED PORT
  IrDA 1.1 (FIR, 4 Mbps)
HIGH-USAGE DOCKING CONTACTS
  Keyboard, mouse and dc-in
SYSTEM INTERFACE CONNECTOR (PORT
REPLICATOR)
  PS/2 Mouse
  Serial B (RS-232-C), replaces IrDA
  USB (Universal Serial Bus), 2 ports; acts as self-
  powered USB hub
  Audio line-in, Audio line-out
  (All built-in connectors are also replicated)

Power
4500 mAh lithium ion battery pack
Autosensing 100-240 V ac, 50/60 Hz adapter

Battery Life
More than 4 hours (application and display
dependent)

Power Management
Intel/Microsoft APM 1.2 and ACPI 1.0
(ACPI requires Windows 98)

Approvals
EMISSIONS
  FCC Part 15 Subpart J Class B
  CISPR22 Class B (EN55022 Class B)
  DOC Class B, CE Declaration
IMMUNITY
  EN50082-1
  EN61000-4-2
  EN61000-4-3
  EN61000-4-4
SAFETY
  UL 1950, CSA 950, EN60950, CE Declaration

Options
Port replicator
External 3.5-inch diskette drive
Low-power keyboard
External battery charger
Folding desk stand
Pen tether
Screen protector (12-pack)
Slip case
Harsh environment case
ac Adapter (spare)
Lithium ion battery pack (spare)
Pen kit (spare)
Pen tips

ENVIRONMENTAL SPECIFICATIONS

Operating
TEMPERATURE
  0° to 40°C (32° to 104°F)
RELATIVE HUMIDITY
  20 to 85% (noncondensing)
ALTITUDE
  -61 to +3,047 m (-200 to +10,000 ft)

Storage
TEMPERATURE
  -20° to 60°C (-4° to 140°F)
RELATIVE HUMIDITY
  8 to 95% (noncondensing)
ALTITUDE
  12,189 m (40,000 ft) maximum

PHYSICAL SPECIFICATIONS

Mass
  1.8 kg (4 lbs) with radio, antenna and battery pack

Antenna (Flexible Rubber)
  48 mm (1.9 in)

Dimensions
HEIGHT
  283 mm (11.1 in)
WIDTH
  188 mm (7.4 in)
DEPTH
  41 mm (1.6 in)

Table 1. Mobile Workstation Options

Battery Pack	The removable, rechargeable, 4500 mAh, lithium ion battery pack for the Mobile Workstation provides more than four hours of operation (application and display dependent). The battery can be swapped whenever the Mobile Workstation is in suspend mode.
External Battery Charger	The compact desktop battery charger holds two Mobile Workstation batteries, charging one battery at a time. It charges to 90 percent of capacity in 2.5 hours and fully charges one battery in 3.5 hours. It requires an ac adapter.
Port Replicator	When the port replicator is connected to the Mobile Workstation, the following ports are provided: external monitor, PS/2 keyboard, parallel device, two full RS-232-C serial devices, external disk drive, dc input power, PS/2 mouse, USB (two ports), microphone jack, headphone jack, audio line-in and audio line-out jacks. Install the port replicator plate provided to allow the best fit with the folding desk stand, in either portrait or landscape mode.
External Diskette Drive	The external 3.5-inch, 1.44 MB diskette drive connects to the disk drive port on the Mobile Workstation or the port replicator.
Keyboard	The low power consumption, 84-key keyboard features a 19 mm (100 percent) key pitch, a coiled PS/2 cable and an 11.7 x 7.7 inch footprint. The F11 and F12 keys require the use of the ALT key. It connects directly to the PS/2 keyboard port on the main unit, the port replicator, the high-usage cradle and the high connectivity cradle. It is recommended for conventional data entry and wall-mounted cradle use.
Pen Tether	The tether attaches the pen to the Mobile Workstation or to a carrying case, minimizing accidental dropping or loss of the pen. It features an integrated swivel to minimize twists in the cord.
Replacement Pen Kit	The kit provides one spare Mobile Workstation pen and one AAAA battery that provides up to 18 months of use. Three extra pen tips are included.
Screen Protectors	Disposable, clear screen overlays are quickly mounted and removed to provide extra screen protection from everyday dust and grit. These are recommended for all environments (package of 12).

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Table 1. Mobile Workstation Options (Cont.)

Slip Case	The tough, woven nylon slip case protects the Mobile Workstation and allows access to the display and hot pads; suspend/resume button; PS/2 keyboard; IrDA port; battery; internal speaker and microphone; microphone and headphone jacks; and status LEDs. It does not allow access to the USB port or external disk drive port. The slip case can be carried vertically or horizontally by repositioning the shoulder strap on the D-rings located at the corners. Pen holder, hand strap, detachable shoulder strap and carrying handle are included.
Harsh Environment Case	The foam-laminated, sealed enclosure gives the Mobile Workstation added protection against dust, moisture, shock and vibration. A clear window allows you to view the status indicator and use the display and hot pads. A single Velcro-sealed flap allows easy access to the suspend/resume button, RJ-11 jack, IrDA port and PC card slots while the unit is in the case.
Folding Desk Stand	This lightweight, adjustable desk stand holds the Mobile Workstation for convenient use on a desktop, in either portrait or landscape mode, and with or without the port replicator attached. The desk stand folds flat for easy storage and transportation and comes with a nylon carrying case.
ac Adapter	The 110 to 240 V ac, 50/60 Hz auto-sensing ac adapter powers the Mobile Workstation or the external battery charger. It may be used as an extra or replacement ac adapter for the workstation and comes with North America power cable (line cord).
Wireless LAN Adapter	A wireless LAN adapter is necessary to provide mobile communications with an I/A Series system. This optional Wireless LAN Adapter PC Card may be ordered for use in the United States and Canada only. For other countries, contact your local Foxboro representative.

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MB 021   Printed in U.S.A.   0300

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