

I/A Series® Hardware Mobile Workstation Indoor Unit



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.

LARGE SCREEN

The large screen (10.4-inch) display, SVGA (800x600) resolution, and 256 colors allow you to easily view detailed I/A Series displays.

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 Cradle** – The cradle holds and adjusts the workstation for optimum viewing angle and provides for storage of cables when used in a desktop position.
- **Optional Keyboard** – The keyboard allows for a more conventional method for inputting data (rather than using the pen).
- **Wall-Mounted Cradle** – This wall-mounted docking station with optional conventional keyboard is available for environments requiring the convenience of both stationary and mobile computing stations.
- **Optional Embedded Wireless LAN Card** (United States and Canada only. LAN Cards for other countries must be obtained from a non-Foxboro source) – The Indoor Unit may be ordered with or without this feature depending upon your needs. However, a wireless LAN adapter is necessary to provide mobile communications with the I/A Series system.

Refer to Table 1 for a complete list of 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

166 MHz Pentium MMX
32 KB on-Chip (L1) cache
512 KB L2 cache

System Memory

32 MB SDRAM

BIOS

256 KB Flash ROM

Bus Architecture

PCI, Cardbus

Operating Software

Windows 98 with Pen Services 2.0 and PenX 1.6
Remote Access Software

Hard Disk Drive

4.1 GB, Ultra ATA, shock-mounted

Expansion

One Type II/III PC card slot, user-accessible
One Type II PC card slot, embedded
(Both slots version 3.0)

Display

SVGA DSTN Color LCD
Backlit, 264 mm (10.4 in) diagonal
0.26 mm dot pitch
800x600 SVGA resolution, up to 65,536 colors

Digitizer

Resistive tablet
493 points/inch horizontal resolution
657 points/inch vertical resolution
100 points/second sampling rate

Audio

Sound Blaster Pro compatible
Full duplex
Built-in microphone and speaker
Mono microphone jack
Stereo headphone jack

Interfaces

BUILT-IN CONNECTORS
Keyboard (PS/2-style connector)
Serial A (RS-232-C)
USB
dc-in

Interfaces (Cont.)

BUILT-IN CONNECTORS (CONT.)

Diskette drive
Microphone (mono)
Headphones (stereo)

INFRARED PORT

IrDA 1.1 (FIR, 4 Mbps)
High-usage docking contacts
Keyboard, mouse and dc-in

SYSTEM INTERFACE CONNECTOR (PORT REPLICATOR/PORT EXPANDER)

Diskette Drive, PS/2 Mouse, Monitor, Parallel, Serial A, and Serial B (Rx/Tx; replaces IrDA)

Battery Life

More than 2 hours. Recharges to 90 percent in 90 minutes, while in operation or in suspend mode

Power

Lithium Ion battery pack
Autosensing 100 to 240 V ac, 50/60 Hz Adapter

Power Management

Suspend and standby modes
Intel/Microsoft APM 1.2 and ACPI 1.0
(ACPI requires Windows 98)

Wireless LAN Option

EMBEDDED PROXIM RANGELAN2 MODEL 6400 RADIO

(For operation in United States and Canada only. For other countries, contact your local Foxboro representative.)

Spread spectrum
Frequency-hopping
2.4000 to 2.4835 GHz
1.6 Mbps (bits per seconds) maximum data rate
61 m (200 ft) to 150 m (500 ft) indoor range

ANTENNA

1.9 in (48 mm) flexible rubber antenna

Approvals

EMISSIONS

FCC Part 15 Subpart J Class B
CISPR22 Class B (EN55022 Class B)
DOC Class B
CE Declaration

WHEN EQUIPPED WITH WIRELESS LAN OPTION

FCC Class B Intentional Radiator and Digital Computing Device
DOC Class B Intentional Radiator and Digital Computing Device
ETSI 300 328 European regulations covering spread spectrum devices operating at 2.4 GHz

FUNCTIONAL SPECIFICATIONS (Cont.)**Approvals (Cont.)**

IMMUNITY

EN50082-1

EN61000-4-2

EN61000-4-3

EN61000-4-4

SAFETY

UL 1950, CSA 950, EN60950, CE Declaration

Options

Portable port expander

Cradles (desktop, wall-mount)

Options (Cont.)

External diskette drive

Low-power keyboard

External battery charger

Folding desk stand

Pen tether

Screen protector (pack of 12)

Slip case

Harsh environment case

ac Adapter (spare)

Lithium ion battery pack (spare)

Pen (pack of 5 spares)

ENVIRONMENTAL SPECIFICATIONS**Operating**

TEMPERATURE

0° to 40°C (32° to 104°F)

RELATIVE HUMIDITY

20 to 85% RH (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

-300 to +12,189 m (-1,000 to +40,000 ft)

PHYSICAL SPECIFICATIONS**Mass**

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

Antenna (Flexible Rubber)

48 mm (1.9 in)

Dimensions

HEIGHT

296 mm (11.7 in)

WIDTH

222 mm (8.7 in)

DEPTH

36 mm (1.4 in)

Table 1. Mobile Workstation Options

Desktop Cradle	The desktop cradle has a simple one-handed, drop-in connection providing access to a PS/2 keyboard, PS/2 mouse and dc input power. Built to withstand over 100,000 insertions, the desktop cradle accommodates the Mobile Workstation with or without the hand strap attached. The cradle base has an adjustable viewing angle and convenient storage for the required ac adapter and cables.
Wall-Mounted Cradle	The wall-mounted cradle eliminates the need for a desk, table or counter. It can be mounted in hallways or other wall areas to give workers a convenient place to store the Mobile Workstation, input data with a keyboard and connect to dc input power. It can withstand over 100,000 insertions and provides the same drop-in connection as the desktop cradle. When not in use, the keyboard tray folds up and meets JCAHO size regulations.
Port Expander	This feature expands the connectivity options of the Mobile Workstation by providing ports not present on the main unit. This small, space-saving device provides connection to the following peripherals: external disk drive; external monitor, parallel device, RS-232-C serial device, Rx/Tx (3-wire) serial device and PS/2 mouse. The portable port expander cannot be used with the folding desk stand.
Battery Pack	The removable, rechargeable, 2700 mAh, lithium ion battery pack for the Mobile Workstation provides more than two hours of operation (application dependent). It charges to 90 percent of capacity in 90 minutes and fully charges in 2.5 hours.
External Battery Charger	This compact desktop battery charger holds two lithium ion batteries, charging one battery at a time. It charges 90 percent of capacity in 90 minutes and fully charges one battery in 2.5 hours.
Pen	Lightweight, low-cost, replacement pens for the Mobile Workstation require no batteries and minimize wear on the resistive digitizer (package of 5).
Pen Tether	The tether attaches the pen to the Mobile Workstation or to a carrying case. It minimizes accidental dropping or loss of the pen and features an integrated swivel to minimize twists in the cord.
Keyboard	This 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.
External Diskette Drive	This external 3.5-inch, 1.44 MB diskette drive connects to the disk drive port on the Mobile Workstation.
Slip Case	This tough, woven nylon slip case protects the Mobile Workstation and allows user access to the display and hot pads; suspend/resume button; PS/2 keyboard, dc input power and I/O connectors; PC card slot; IrDA port; battery; internal speaker and microphone; microphone and headphone jacks; and status LEDs. The unit can be carried vertically or horizontally by repositioning the detachable shoulder strap on the D-rings located at the corners. The case includes pen holder, hand strap, detachable shoulder strap and carrying handle.
Harsh Environment Case	This tough, washable, black vinyl case completely encloses and protects the Mobile Workstation while still allowing use of the display and hot pads; suspend/resume button; IrDA port; internal speaker and microphone; wireless LAN; and status LEDs. The unit can be carried vertically or horizontally by repositioning the detachable shoulder strap on the D-rings located at the corners. It includes pen holder, hand strap, detachable shoulder strap and carrying handle.

Table 1. Mobile Workstation Options (Continued)

Screen Protectors	Disposable, clear screen overlays are quickly mounted and removed to provide extra screen protection from everyday dust and grit for the Mobile Workstation. They are recommended for all environments (package of 12).
Folding Desk Stand	This lightweight, adjustable desk stand holds the Mobile Workstation for convenient use on a desktop, in either portrait or landscape mode. 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 Indoor Workstation, the external battery charger or any of the cradles. The adapter may be used as an extra or replacement ac adapter for the workstation. It comes with North America power cable (line cord).
Embedded Wireless LAN Adapter	A wireless LAN adapter is necessary to provide mobile communications with an I/A Series system. This optional embedded wireless LAN adapter may be ordered if the workstation is being used in the United States or Canada only. The PC card slot may be used to provide other options. For other countries, contact your local Foxboro representative.

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