

Rugged electronic substitutes for the clipboard



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Wireless

PC-Based Products

IBM 2488 Pen-Based Computer Models 300 and 800

Model 300

- **Compact, 6-inch diagonal LCD transreflective screen, high-quality 640 x 480 VGA resolution with up to 64 levels of gray**
- **486SLC, 50-MHz microprocessor**
- **Designed and manufactured to resist water, dust, humidity and a 4-foot drop onto concrete**
- **2-MB Flash ROM, 12-MB RAM**



Model 300



Model 800

Model 800

- **Full-sized, 9.5-inch-diagonal LCD transreflective screen with high-quality 640 x 480 VGA resolution and up to 64 levels of gray**
- **486DX/2, 50-MHz microprocessor**
- **256-KB Flash ROM, 8 MB of standard RAM, expandable to 16 or 32 MB**

The IBM 2488 family of rugged, wireless, pen-based computers offers today's mobile user features and functions previously unavailable in go-anywhere computers and real-time data collection devices. These products are unique, portable data-management tools that combine the advantages of pen-based technology with advanced bar-code scanning and wireless data-communication capabilities. Size is not always the indicator of processing power and speed. These lightweight, compact, handheld computers have highly integrated microprocessors for PC compatibility, for your most demanding data management needs. Sophisticated power management techniques allow the batteries to last as long as a full shift without recharging.

The shock-mounted, scratch-resistant displays provide clear viewing of even the most intricate graphics, both indoors and out. Advanced technology enables rapid, accurate, data input through the touch of a finger, use of a stylus or an optional keyboard. With the advanced pen interface, you can complete application-specific forms, writing data directly on the screen as you would on paper.

Product Overview

Go-anywhere computers

Intelligent power management and a proprietary power-status monitoring system maintain ample energy for a full work shift. These small computers go anywhere data needs to be gathered, instead of taking the information to the computer, for real-time mobile data transactions. They are also designed for use in a wide range of temperatures and weather conditions. The high-impact cases are ruggedized and sealed to withstand shock, moisture and dust intrusion, and electrostatic interference.

Communications

When LAN communication is required, these pen-based computers can be ordered with integrated 2.4-GHz Direct Sequence, Spread-Spectrum radios. An integrated 28.8 modem is available for the Model 800. I/O ports provide an interface to a variety of peripherals, such as printers, scanners, keyboards and docking stations. Optional quick-connect charging and communication cradles facilitate fixed-station or mobile work applications.

Optional internal radio

Real-time communication capabilities can be expanded with an optional, internal radio. With the optional 2.4-GHz radio installed, the 2488 becomes another member of the IBM 2.4-GHz wireless LAN family of products. This wireless LAN radio provides secure, interference-free communication in a local network, such as a factory complex, warehouse, hospital or truck depot. It enables these computers to be easily integrated into such networks as Ethernet or Token-Ring using the appropriate Wireless LAN Access Points.

Part of a total system solution

In the past, computer access was limited to places that could only be directly wired to the host system. The IBM 2488 Pen-Based Computers significantly expand your options by giving you mobile, roaming access to computing facilities within a building or campus area.

Generally positioned as a mid- to low-cost product, the IBM 2488 family was designed to be used as part of a total system solution in a wide variety of industries such as health care, travel and transportation, manufacturing and warehousing, financial services, retail and gaming.

Serial port connections

The Model 300's 15-pin connector, combined with a special adapter cable, allows the connection of both an AT-type keyboard, for programming and maintenance, and any standard serial device. The Model 800's 8-pin, mini-DIN serial port allows any standard serial-type device to be connected. A PS/2 keyboard connection and an optional converter cable to attach a standard AT-type keyboard are also available. For charging, the units connect to either an ac adapter or a vehicle cigarette lighter power adapter. A four-bay battery fast-charger is also available for Model 300.

PCMCIA connectors

Additional I/O device connectivity can be achieved via industry-standard Type II and III PCMCIA slots, which accept credit-card-size devices such as static RAM, network interface cards and data/fax modems. The Model 800 also has an internal modem. The Model 300 is capable of initial program load (IPL) from an SRAM card.

IBM 2488 Pen-Based Computer Specifications

Physical specifications	Model 300	Model 800
Length	211 mm (8.3 in.)	311 mm (12.25 in.)
Width	135 to 146 mm (5.3 to 5.7 in.)	241 mm (9.5 in.)
Depth	65 to 78 mm (2.6 to 3.1 in.) at hand grip	38 to 51 mm (1.5 to 2.0 in.)
Weight	1.08 kg (2.4 lb) with battery pack 1.22 kg (2.7 lb) with internal radio	2.16 kg (4.75 lb) base unit with battery pack 2.3 kg (5 lb) with internal radio
Operating environment		
Temperature	-20° to 50°C (-4° to 122°F)	-20° to 50°C (-4° to 122°F)
Relative humidity	0% to 95% noncondensing	0% to 95% noncondensing
Storage temperature	-40° to 70°C (-40° to 158°F)	-40° to 70°C (-40° to 158°F)
Power	<ul style="list-style-type: none"> • 1400-mAh capacity NiCd battery pack • Integrated fast charger circuitry • Low battery and charging LEDs • DC power input 18 V, 800-mAh output • Automatic suspend mode for battery changes without reboot • Charging time 2 to 3 hours (backup bridge battery if pack removed) 	<ul style="list-style-type: none"> • 1700-mAh capacity NiCd rechargeable battery pack • Integrated fast charger circuitry • Five power status LEDs indicate charge level while charging • Charging time 2 to 3 hours (unit turned off or in operation) • DC power input 18 V, 800-mAh output • Suspend-and-resume power conservation switch • Selectable automatic or manual system standby and backlight shutdown • Automatic suspend mode allows battery changes without reboot
Warranty	One year	One year
Installation Information		
Software/operating support	MS-DOS 6.22	
Optional application environments	<ul style="list-style-type: none"> • Microsoft® Windows® 95 • Microsoft Windows for Pen Computing • PenRight! for Windows (Runtime) 3.6 • Microsoft Windows for Workgroups • PCMCIA card and socket services support 	
Application software compatibility	<ul style="list-style-type: none"> • Client/server environment • Host emulation packages: 3270, 5250, ANSI/VT220 • Microsoft Windows applications • DOS applications 	
Hardware	Model 300	Model 800
	<ul style="list-style-type: none"> • 486SLC, 50-MHz microprocessor • 2-MB flash EPROM and 12-MB RAM, 256-KB ROM dedicated to BIOS and operating system • Display: monochrome, 151-mm (5.94-in.) diagonal, VGA, transfective LCD display with 640 x 480 pixel resolution, 64 levels of gray, switch-adjustable contrast and brightness, and scratch- and impact-resistant 	<ul style="list-style-type: none"> • 486DX/2, 50-MHz microprocessor • 256-KB flash EPROM used for BIOS and operating system • 8-MB base RAM with 16-MB or 32-MB RAM optional • Display: 241-mm (9.5-in.) diagonal, VGA, transfective, monochrome LCD screen with 640 x 480 pixel resolution, 64 levels of gray and keypad-adjustable contrast and brightness. Display is scratch- and impact-resistant with 1000-dpi resolution.

- Viewable screen size 91 mm x 121 mm (3.57 in. x 4.76 in.)
- High-precision electromagnetic digitizer with 480-dpi resolution
- One PCMCIA slot that can accept one Type I, Type II or Type III card
- Ergonomic passive stylus with tether
- Optional integrated, standard-range laser-scanner module or external, standard, long-range or extra-long range handheld laser-scanner or pencil wand supported via RJ-41 module. Recognized bar codes include U.P.C., EAN, Plessey, Code 39, Code 11, 2 of 5, Interleaved 2 of 5, Codabar, Code 128, Code 93
- Optional printer support via built-in parallel port
- Optional 1.08-GB rotating hard disk
- Optional 40-MB or 60-MB internal solid-state disk
- Two PCMCIA slots that can accept two Type I or Type II cards or one Type III card
- Viewable screen size 140 mm x 191 mm (5.5 in. x 7.5 in.)
- Plastic electromagnetic pen with tether
- Optional, metal electromagnetic pen with tether
- Optional, standard, long-range or extra-long range handheld laser scanner or pencil wand via enhanced RJ-41 port
- Recognized bar codes include UPC, EAN, Plessey, Code 39, Code 11, 2 of 5, Interleaved 2 of 5, Codabar, Code 128, Code 93
- Optional printer support via 50-pin port combination parallel and diskette port

Key Customer Benefits

- Durable device designed to withstand rough handling in field and industrial environments
 - Sealed to withstand shock, moisture, dust intrusion and electrostatic interference
 - Combine the advantages of pen-based computing with mobile data access
 - Ideal electronic “real time” substitute for paper clipboard
 - Character recognition and signature capture capability
 - Optional 40-MB or 60-MB solid-state hard disk
 - Optional 2.4-GHz Direct-Sequence, Spread-Spectrum radio which works with existing 2.4-GHz IBM Wireless LAN network backbone
- Model 300*
- One user-accessible PCMCIA slot that can house either one Type I, one Type II or one Type III card
 - Optional standard-range scanning module
 - Rechargeable 1400-mAh NiCd battery pack
- Model 800*
- Two user-accessible PCMCIA slots that can house one Type III or two Type II or Type I cards
 - Rechargeable 1700-mAh NiCd battery pack
 - Various optional tethered, hand-held scanning capabilities

Supplementary Information

The following sales tools are available for the IBM 2488 Pen-Based Computer Models 300 and 800:

- Specification sheet:
IBM 2488 Pen-Based Computer Models 300 and 800, G224-4516-00
- Information on the 2488 Pen-Based Computers and related products is available at:
www.networking.ibm.com/wireless.