

*From controlled to extreme environments,
a hand-held computer that gets the job done*



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IBM 2493 Portable Transaction Computer

- **Hand-held, battery-powered wireless computer for collecting, storing and transmitting data**
- **Rugged design for superior tolerance to environmental extremes, such as temperature variations, rain or vibration**
- **Dual CPUs for optimum performance: V20/80C88 microprocessor running 10 MHz for terminal processing and a Z182 microprocessor dedicated exclusively to radio frequency (RF) communications**
- **256-KB operating system flash EPROM and 256-KB application flash EPROM**
- **1-MB standard RAM**
- **Runs MS-DOS 5.0 with a choice of optional emulators including SNA5250, TN5250 (Telnet) or PTC/TCP ANSI/VT220**
- **Direct-sequence spread-spectrum radio (2.4 GHz) and quick-change, fast-charge battery pack**
- **Sealed laser scanner (standard- or long-range)**



IBM 2493 Portable Transaction Computer

The IBM 2493 Portable Transaction Computer (PTC) is a hand-held computer that can collect and transmit data from any point in the workplace, from an office to the manufacturing floor. The information that is collected is immediately online, ready for processing. The 2493 comes ready to use with either a DOS or 5250 emulation keyboard depending on the model. A 16-line by 21-character LCD lets you view the information entered. Dependable, rugged and handy, the 2493 PTC makes it easy to gather and track the vital information that keeps your business running.

Wireless

AS/400 Wireless RF Data Collection Devices

Product Overview

Lightweight device

The device weighs only 0.74 kg (1.6 lb) and is designed for easy handling. The 2493 PTC includes an integrated scanner that enables the user to scan bar codes from various distances.

Spread-spectrum radio

The 2493 PTC uses a direct-sequence, spread-spectrum radio that operates in the radio frequency band from 2.4 to 2.4835 GHz to transmit the information to the host or network. Power for the PTC is supplied by a rechargeable nickel-cadmium battery. The battery can be recharged in just 2 hours by using either the optional fast charger or overnight (8 hours) using the optional trickle charger.

Models

Four models of the 2493 are available:

- Model 5S0 with standard-range laser scanner and 5250 keyboard
- Model 5L0 with long-range laser scanner and 5250 keyboard
- Model DS0 with standard-range laser scanner and DOS keyboard
- Model DL0 with long-range laser scanner and DOS keyboard

IBM 2493 Portable Transaction Computer Specifications

2493 PTC Optional Features/Accessories

Description	Feature Code
Flash/download cable, PC AT® style, 9-pin ¹	3274
4-Bay fast charger for batteries ²	3296
Power supply for 4-bay fast charger ³	1340
Protective boot, Duraflex	3280
Holster with belt mount, belt and instructions	3276
Spare battery pack	3300
PTC trickle charger ²	3268
SNA5250 emulation software ⁴ (Models 5S0 and 5L0 only)	3304
TN5250 emulation software ⁴ (Models 5S0 and 5L0 only)	3298
Spare antenna	3278
Flash EPROM Utility Diskette ⁵	0063

¹Required to upgrade software on the 2493. At least 1 is recommended for each location.

²Either a 4-bay fast charger (FC 3296) or trickle charger (FC 3268) is required to charge the nickel-cadmium battery that comes with the base machine.

³Required when ordering FC 3296.

⁴Plant-only installation. FC 3304 and FC 3298 are available on Models 5S0 and 5L0 only. One of these features is required when either Model 5S0 or 5L0 is ordered.

⁵Requires FC 3274 flash/download cable.

Machine type	2493
Physical specifications	Width: 91 mm (3.6 in.) Depth: 224 mm (8.8 in.) Height: 17.8 mm (0.7 in.) Weight: 0.74 kg (1.64 lb.)
Operating environment	<ul style="list-style-type: none"> • Operating temperature: -20° to 49°C (-4° to 120°F) • Storage temperature: -40° to 60°C (-40° to 140°F) • Shock: 12 consecutive 4-foot drops to concrete on all faces or corners at temperatures of -30°C (22°F), 25°C (77°F) and 75°C (137°F), respectively.
Software/operating systems	MS-DOS 5.0 Optional 5250 emulation software for Models 5S0 and 5L0 Standard PTC/TCP ANSI/VT220 for Models DS0 and DL0
Hardware requirements	<ul style="list-style-type: none"> • IBM AS/400® host with wireless connection capability for Models 5S0 and 5L0 • A host that supports ANSI VT220 emulation for Models DS0 and DL0 • IBM 2480-E00, EB0, TR0 or TB0 Wireless LAN Access Point if using a wired LAN backbone for any of the models (required for most environments)
Software requirements	<ul style="list-style-type: none"> • AS/400 host: Operating System/400® Version 3.1 or higher capable of supporting wireless connectivity • If using TN5250 emulation software for Models 5S0 and 5L0 (Feature #3298), TCP/IP on the AS/400 host • If using models DS0 or DL0, TCP/IP on the host
Warranty	1 year

Laser scanner working distance

The 2493 comes in a standard-range and long-range scanner models. The long-range models enable the user to scan bar codes from a greater distance. With each model the scanning range of distance depends upon the width of the bar code.

Standard-Range Laser Scanner - Models 5S0 and DS0

Bar code width	Scanner working-distance range
5 mil	84 to 127 mm (3.3 to 5 in.)
7.5 mil	64 to 228 mm (2.5 to 9 in.)
10 mil	64 to 355 mm (2.5 to 14 in.)
15 mil	x ⁿ to 457 mm (x ⁿ to 18 in.)*
20 mil	x ⁿ to 558 mm (x ⁿ to 22 in.)*
40 mil	x ⁿ to 787 mm (x ⁿ to 31 in.)*
55 mil	x ⁿ to 914 mm (x ⁿ to 36 in.)*

* An x indicates that the minimum distance is determined by the symbol length and the scan angle.

Long-Range Laser Scanner - Models 5L0 and DL0

Bar code width	Scanner working-distance range
10 mil	330 to 508 mm (13 to 20 in.)
15 mil	203 to 635 mm (8 to 25 in.)
20 mil	203 to 889 mm (8 to 35 in.)
40 mil	203 to 1397 mm (8 to 55 in.)
55 mil	304 to 1651 mm (12 to 65 in.)

Technical notes for the range tables

- The bar codes were printed on paper.
- The measurements were taken at room temperature, scanning photographic-quality bar codes.
- Specifications are subject to change without notice.

Key Customer Benefits

- Dependable 2.4-GHz Wireless RF Data Collection
- Ready to run, with either 5250 Emulation or DOS VT/220
- Durable device designed to hold up in rugged environmental conditions
- Increased productivity due to mobile management of inventory by bar codes

Supplementary Information

The following sales tools are available for the IBM 2493 Portable Transaction Computer:

- Specification sheet:
IBM 2493 Portable Transaction Computer G224-4544-00
- Information on the 2493 Portable Transaction Computer and related products is available at:
www.networking.ibm.com/wireless.