Product Bulletin

PRIME

Prime PERFORMER Terminal (PT200)

Features

- Microprocessor-controlled, 256-ASCII-character, buffered display terminal
- Optional graphics and color monitor
- Tilt display with detached, sculptured Prime Standard Keyboard
- Large 14" (355 mm) diagonal, non-glare bezelled screen and choice of three phosphors
- 26 character-attribute and editing function keys, plus 26 application-function keys
- 80- or 132-column screen display; folded-page support for 160 columns
- Multipage operation available with user-selectable scroll speeds
- Self-test diagnostic capabilities
- Internationalized operation; nine languages available
- Customer-installable, field-upgradeable (NOTE: The monitor can *not* be upgraded. Prime will install either the color or monochrome monitor, whichever you choose, at the factory)
- Quiet operation suitable for office use
- New "Deferred" customer service option
- Supported by a wide range of Prime systems software products and applications packages

Description

The Prime PERFORMER™ terminal (PT200)™ is a versatile, high-throughput, alphanumeric display terminal ideal for a variety of business applications requiring both character- or block-mode capabilities. An asynchronous terminal, it can operate with both local and remote connections. The PT200 must be used to run Prime's SNA emulation products, PRIME/SNA.™

Designed to be easy to use, the Prime PERFORMER terminal features the advanced Prime Standard Keyboard, which can support many word- and data-entry functions. The monitor tilts, and has a coated screen designed to reduce glare for maximum user comfort.

The microprocessor-controlled PT200 is simple to configure, so the customer can install it. Prime's local Customer Service Representatives will handle the graphics option upgrade. The PT200 is compatible with all Prime 50 Series™ superminicomputers under the PRIMOS® operating system.

Video Display

The Prime PERFORMER terminal's monochrome, 14" (355mm) diagonal, non-glare screen offers a choice of amber, green or white phosphors. To further reduce reflections and glare, a bezel surrounds the display area. A color monitor is also available as an alternative.

Users may choose from four screen formats, which can be user- or program-controlled. In addition to the standard 24 lines with 80 characters-per-line display, a two-page capability provides 48 lines. Another format permits the display of 27 lines with up to 132 characters each. Even text or other material that is 160 columns wide can be accommodated through horizontal scrolling. Each format has an additional status line that displays parameters and messages. A folded-page feature allows a specified number of columns (perhaps containing labels) to be stationary while the display scrolls behind or below the stationary area.

There are a number of visual display attributes for the user's convenience. These include underline, strike-through, normal or reduced intensity, reverse video, blink and invisible mode. The screen automatically dims after 15 minutes, protecting against images burning into it. Pressing any key, or the receipt of new data from the host will restore the image.

The user can easily set brightness, key click, screen format and many other character attributes through a menu. These settings, stored in non-volatile memory, can remain in place even after power is switched off: the PT200 can also be returned to the default settings. Alternatively, a programmer can control the appropriate display attributes for a particular application.

Graphics and Color

An optional graphics board enables the PT200 to operate as high-quality graphics terminal that supports the popular Tektronix 4010/4014 interface. It can be installed on both the monochrome and color monitors. The board provides fully bit-mapped graphics to develop high resolution (720 x 300 pixels) displays. It is excellent for creating detailed line drawings, bar and pie charts and other business graphics, as well as for shading.

Image™ and Tell-A-Graf™ graphics packages and any other application software that works with the 4010/4014 interface can run on the PT200. The Prime PERFORMER terminal can also display drawings created with the PRIME MEDUSA™ modeling program.

Even without the graphics option, the PT200 has line drawing and block graphics features that enable it to create basic bar charts, block diagrams and flow diagrams.

An optional color monitor offers the advantage of a full color display to improve the presentation and clarity of charts, graphs, and even alphanumeric data. The monitor will display up to eight colors, six of which have two intensities, for a total of 14 shades (including black and white).

Keyboard

The Prime Standard Keyboard is detached and moveable for maximum user comfort. It connects to the base with a lightweight coiled cord, which is hidden when the keyboard is adjacent to the monitor.

The low-profile keyboard has a sculptured, typewriter-style QWERTY layout designed to adhere to the ISO standard. This minimizes operator training. The keyboard is also specifically designed to provide a consistent user interface. Special keys are grouped together for specific functions such as SNA and 3270 emulation. To speed data entry and editing, 26 labeled function keys enable users to delete or insert characters, clear the screen, scroll the display and perform many other operations with a single keystroke.

The user can program an additional 26 keys for specific functions. Five of these keys have LEDs to indicate the currently operating mode (e.g., displaying all capital letters instead of capitals and lower case). The user can also adjust the keyboard click and margin bell, display intensity and scrolling rate to help increase accuracy. Even when the PT200 is turned off, it can remember the setting of these attributes.

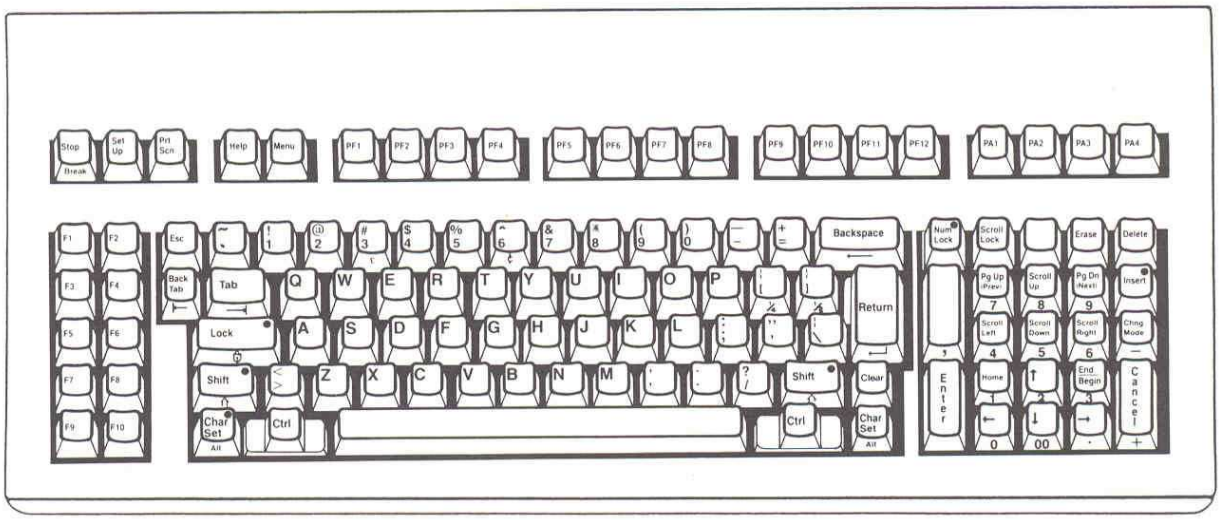
Communications

For standard communications with Prime systems, the Prime PERFORMER terminal uses Prime's Asynchronous Multi-Line Controller (AMLC) or Intelligent Communications Subsystem, Model 1 (ICS1) or Model 2 (ICS2) for EIA (RS-232-C/CCITT V.24) connections. It can connect to the host directly or through a variety of modems. Transmission rates are switch- or menu-selectable from 50 bps to 19.2Kbps. Parity is switch-selectable for ODD, EVEN, IGNORE or NONE.

The terminal provides greater line efficiency through a full ANSI line protocol. Reduced line overhead gives remote users and public packet-switching network users more cost-effective communications.

Self-Diagnostics

With built-in, ROM-resident diagnostics, the Prime PERFORMER terminal automatically tests itself upon power-up. Also, the user can test the processor, communications interface, keyboard logic, ROM and screen modules at any time.



The Prime PERFORMER terminal's versatile, ergonomic keyboard is available in nine international versions. The U.S. version is pictured above.

Software

The PRIMOS operating system supports the Prime PERFORMER terminal on all Prime 50 Series systems. This sophisticated software system supports a wide range of industry-standard, high-level languages including FORTRAN 77, COBOL 74, BASIC/VM, RPG II, PL/I-G, Pascal, and C.

All of Prime's application software programs work with the terminal; over time, they will better exploit such special features as its 132-column display. Software utilities compatible with the Prime PERFORMER terminal include the Prime Source-Level Debugger for fast program development; EMACS, an interactive screen editor; and the Forms Management System, FORMS, for interactive screen formatting. The terminal can also work with the Prime Office Automation System and Prime INFORMATION.™

Hardware Services

Prime Hardware Services are designed to complement and enhance the overall effectiveness of Prime hardware. We offer a choice of several service options and warranties, including our new Deferred Service program specifically for customers with many PT200 terminals. Under Deferred Service, a Prime Customer Service Representative will service all PT200 terminals from a central customer location, install field change orders at no cost and conduct all preventive maintenance on a delayed basis.

All of our service offerings are backed by the skill of hundreds of systems analysts and field engineers, so Prime can provide the support your system needs for maximum uptime, anywhere in the world.

For more information about Prime hardware, service or communications products, please contact your local Prime marketing representative.

Specifications

Monitor

Control:	Microprocessor
Display:	Raster scan, non-interlaced
Phosphor:	White, amber or green
Screen size:	14" (355 mm) diagonal measure
Display formats:	24 lines x 80 columns, 1,920 characters, 25th line status/system message line; 27 lines x 132 columns, 3,564 characters, 28th line status/system message line; 24 lines x 160 columns and 48 lines x 80 columns available with hardware scrolling
Display memory:	3,840 characters max.
Character size:	7 x 9 dot matrix
Refresh rate:	60 Hz.

Keyboard

Style:	Detached, low profile, typewriter layout
Cable length:	19" (482.6mm) coiled, 48" (1.9 M) expanded
User-programmable function keys:	26
Keypad:	22-key numeric
Cursor control:	Up, down, left, right; scrolls – up, down, left, right

Character Set/Attributes

Character set:	256 ANSI multinational
International keyboards:	U.S., U.K. English, French, German, Danish, Swiss French, Swiss German, Norwegian, Swedish/Finnish
International Menus:	English, French, German
Line drawing:	Eight graphic symbols
Block graphics:	64 symbols
Visual attributes:	Normal and reduced intensity, underline, blink, reverse video, invisible, strike-through
Logical attributes:	Modified data, must enter, must fill, selected for transmission, protected, numeric-only, either left- or right-justified, alphabetic-only, alphanumeric
Cursor:	Underline, blinking underline, blinking block, reverse video block

Communications

Line interface:	EIA (RS-232-C/CCITT V.24)
Transmission mode:	Full/half duplex
Transmission rate:	Selectable 50 bps to 19.2Kbps asynchronous
Protocol:	XON/XOFF
Parity:	ODD, EVEN, IGNORE or NONE
Operating modes:	Character- or block-mode

Auxiliary Interface

Serial, XON/XOFF Protocol
EIA (RS-232-C/CCITT V.24)
Transparent pass-through from host
50-19,000 baud

Physical

Display module:	15.25" (39cm) W x 12.5" (32cm) H x 16" (41cm) D; 22 lbs. (10kg)
Keyboard module:	19.5" (49cm) W x 3" (7.6cm) H x 8.25" (20.5cm) D; 7 lbs. (3.2kg)

Power

Voltage:	180-264 VRMS or 90-132 VRMS
Phase:	Single
Frequency:	50Hz or 60Hz
Power consumption:	70 Watts maximum

Environmental

Operating temperature:	50°F-104°F (10°C-40°C)
Storage temperature:	0°F-140°F (–18°C-69°C)
Maximum operating altitude:	10,000' (3,046 M)
Operating relative humidity:	10%-90% (no condensation)
Storage relative humidity:	0%-95% (no condensation)
Heat dissipation:	170 Btu/hr (50 Watts)
Cooling:	Natural convection

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