VT1300 Terminal

Digital's Color X Window Terminal

digital

What It Is:

The VT1300 is Digital's color, high-resolution, high-performance, X Window terminal.

What It Does:

The VT1300 color X Window terminal gives you access to color text and graphics applications. It supports the DECwindows and X Window System™ user interfaces, giving you access to thousands of applications previously available only with a workstation. The VAXELN Window Server Software (EWS) is downline loaded from a VMS or ULTRIX (VAX or RISC) host or server. The VT1300 color X Window terminal can access both Digital and non-Digital systems via ThinWire or thick wire Ethernet.

How You Benefit:

The VT1300 color X Window terminal gives you cost effective access to more than 6,000 VMS applications, and over 1,000 ULTRIX applications. You can access UNIX® applications as well. The VT1300 color X Window terminal has the same look and feel of a workstation at a lower cost. It incorporates display features similar to those in a workstation, including: high-performance graphics, high-resolution and 8 graphics planes with 256 displayable colors. The VT1300 color X Window terminal uses the same graphics user interface as a workstation, so you needn't learn how to use yet another type of interface. Your investment in the VT1300 is protected because it supports open standards, such as the X Window System and TCP/IP. You have further investment protection because the VT1300 can change as your needs change—it can be upgraded to a VAXstation 3100 Model 30 SPX.

Highlights

- Displays multiple DECwindows and X Window System applications simultaneously—running under the VMS, ULTRIX or UNIX® operating systems

- ThinWire or thick wire Ethernet connection supports DECnet and TCP/IP communications

- Displays OSF/Motif™ applications

- Provides a common windowing interface to all applications

- VR320 color, 19-inch, high-resolution monitor has a resolution of 1280 x 1024 and a 66 Hz refresh rate

- 90 nanosecond CVAX processor and a graphics co-processor yield high graphics performance

- 8 Mbytes of memory standard

VT1300 terminal displaying DECview3d, Calculator and DECwindows mail.

A Combination of Terminal and Workstation Features

The VT1300 color X Window terminal is easy to install and use. Local system management isn't required and users are relieved of the burden of backing-up their own files. Data compatibility is assured because all users access the most current version of any particular database. Application compatibility is also assured—all users run the same version of any particular application.

The VT1300 color X Window terminal provides the display characteristics you expect in a workstation. Its high resolution monitor has a display of 1280 x 1024, a 66 Hz flicker-free refresh rate and 8 color graphics planes. And the 90 nanosecond CVAX processor and its graphics co-processor yield unsurpassed graphics performance. Together these features give you graphics displays of exceptional clarity, at exceptional performance levels.

This combination of terminal and workstation features optimizes your investment and gives you the best of both worlds. The VT1300 color X Window terminal gives you access to workstation applications and lets you keep the ease-of-use of a terminal. As your application requirements change in the future, your VT1300 color X Window terminal can change as well—an optional upgrade kit will convert your VT1300 into a diskless VAXstation 3100 Model 30 SPX. This kit must be installed by Digital Customer Services.
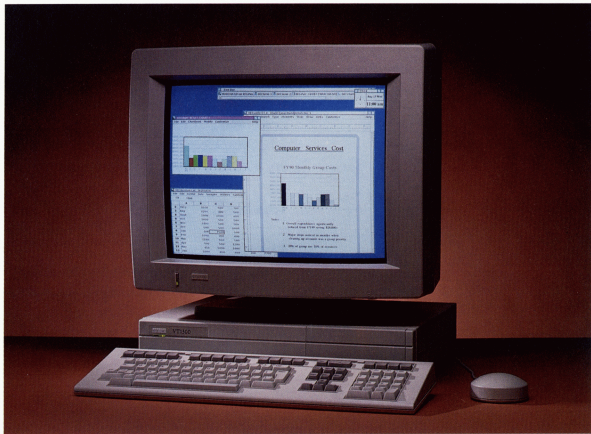
The DECwindows Environment

The VT1300 color X Window terminal supports the DECwindows graphical user interface. DECwindows is based on the industry-standard X Window System. It offers all the advantages of the X Window System and more. In the DECwindows environment, standard components of the X Window System are optimized for higher performance, reliability, and faster application development. It provides a superior user and application development environment and gives you a consistent user interface regardless of the operating system or hardware platform.

Because the VT1300 color X Window terminal is compatible with the VMS, ULTRIX and UNIX operating systems it can access thousands of X-based applications from Digital and third-party vendors. In addition to major third-party applications, DECwindows applications include easy-to-use personal productivity tools for everyday tasks such as desktop publishing, project planning, and business graphics.

On the cover: VT1300 terminal displaying a process control application and DECchart.

particular wiring scheme by pressing a switch that's built into the terminal. The VT1300 color X Window terminal gives you simultaneous access to applications running under different operating systems and on different hardware platforms—from anywhere across the network.

VT1300 Configuration

The VT1300 consists of four key components:

- System box—Contains the terminal's logic and 8 Mbytes of memory
- Monitor—VR320 high-resolution, 19-inch, color monitor
- Keyboard—LK201 keyboard
- Mouse—Standard Digital three-button mouse.

VT1300 terminal displaying DECwrite, DECchart and DECdecision.

A Commitment to Open Standards

Any application written to the X11 standard, including the OSF/Motif graphical user interface, can be displayed on the VT1300 color X Window terminal. This unique feature gives you the flexibility to perform and track multiple tasks running under VMS, ULTRIX, and UNIX, all at the same time.
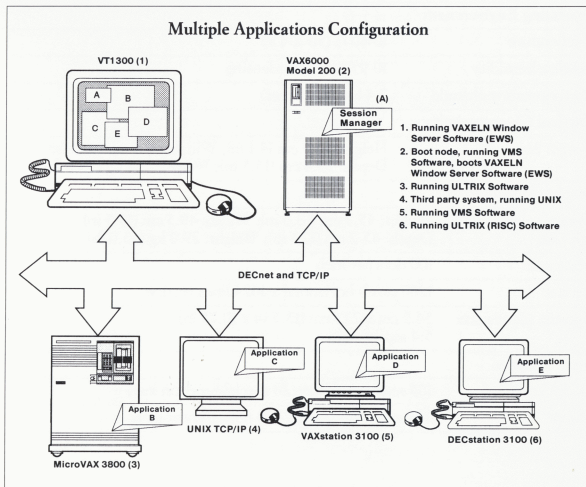
Support for Multiple Networking Standards

The VT1300 color X Window terminal supports both DECnet and TCP/IP communications protocols. With these network interfaces, you get access to systems running the VMS, ULTRIX, and UNIX operating systems. Both communications protocols can operate concurrently on Digital and non-Digital hosts. The VT1300 color X Window terminal supports both ThinWire and thick wire Ethernet. You configure the VT1300 color X Window terminal for your

Multiple Applications Configuration

VT1300 (1)

VAX6000 Model 200 (2)

(A) Session Manager

1. Running VAXELN Window Server Software (EWS)
2. Boot node, running VMS Software, boots VAXELN Window Server Software (EWS)
3. Running ULTRIX Software
4. Third party system, running UNIX
5. Running VMS Software
6. Running ULTRIX (RISC) Software

DECnet and TCP/IP

MicroVAX 3800 (3)

Application B
UNIX TCP/IP (4)

Application C

Application D
VAXstation 3100 (5)

Application E
DECstation 3100 (6)

The VT1300 Color X Window terminal can display applications that are running on remote nodes.

Specifications

Hardware Prerequisites

A VMS or an ULTRIX (VAX or RISC) system connected to an Ethernet network.

Software Prerequisites

VMS Host or Server	ULTRIX Host or Server
VMS V5.3 or higher	ULTRIX V3.2 or higher
DECwindows V2.0 or higher	UWS V2.2 or higher
DECnet-VAX V5.3 or higher	TCP/IP
UCX V1.2 optional (for TCP/IP environment)	DECnet ULTRIX V3.0 or higher

Network Protocols

DECnet	MOP for downline loading
TCP/IP	BOOTP
Memory	8 Mbytes

Power Requirements

Line voltage	120 V/240 V
Voltage tolerance-RMS	88-132 V/176-264 V
Frequency tolerance	47-63 Hz
Frequency—single phase	60 Hz/50 Hz
Power consumption	220 W
Maximum running current	2.8 A/1.5 A

Operating Environment

Temperature	10-40 C (50-104 F)
Relative humidity	10-95% noncondensing
Max. operating altitude	2.4 km (8000 feet)

Physical Characteristics

System box	Height: 10.3 cm (4.1 in); Width: 46.4 cm (18.3 in) Depth: 39.4 cm (15.5 in); Weight: 11.4 kg (25.0 lb)

Display Monitor

19-inch color (VR320)	Height: 45.7 cm (18.0 in); Width: 49.5 cm (19.5 in) Depth: 45.2 cm (17.8 in); Weight: 29.0 kg (63.0 lb)
Resolution	100 dots per inch
Format	1280 pixels horizontal x 1024 lines vertical
Approx. picture size	34.2 cm x 27.3 cm (13.5 in x 10.75 in) 5:4 aspect ratio

Input Devices

LK201 keyboard	105 sculptured keys, 20 special-function keys
Mouse	Three-button mouse, 200 pulses/linear inch

Commitment to World-class Service

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The Next Step Is Easy

To learn more about the VT1300 color X Window terminal and Digital's service offerings, contact your local Digital Sales Representative or Authorized Distributor.

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