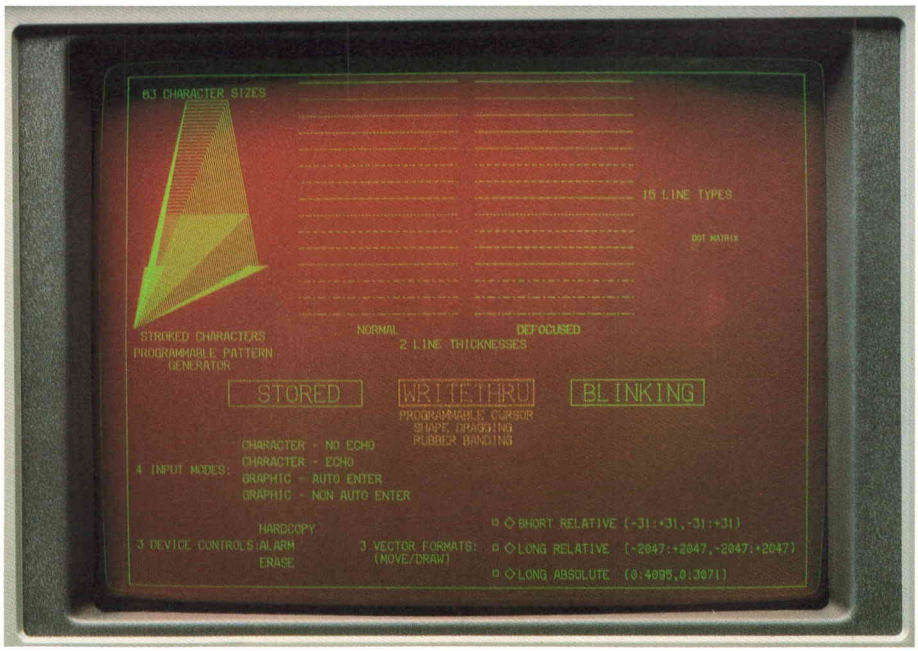
A hardware and software kit to attach an IBM PC/XT or Personal Computer AT to a Tektronix 614 Display Monitor. This configuration provides a low-cost, dual screen workstation alternative.

GRAPHICS ATTACHMENT FOR TEK 614 DISPLAY AND IBM PC/XT OR AT



The 614F32 Graphics Attachment (PC/GA) Kit is a set of hardware and software components that transform a PC/XT or AT into the equivalent of an IBM 3277 with the IBM 3277 Graphics Attachment (3277GA). The PC/GA permits attachment of a Tek 614 high resolution display monitor to a PC/XT or AT and allows them to function in a manner similar to the 3277GA. Emulation of the 3277GA is complete. Interactive graphics applications which employ the 3277GA can use the PC/GA without any change in the applications program.

614 Graphics Display for the Workstation

The Tektronix 614 Display Monitor connects to the PC/XT or AT via the PC Graphics Attachment card provided with every 614F32 kit. The combination of the PC/XT or AT and the 614 display provides an excellent high resolution, dual display workstation. The 614 is a high performance display monitor. Its storage mode provides high resolution, high density graphics at a low cost. Color-enhanced refresh adds increased viewability, selective erase, interactivity, and dynamic motion with the same high resolution.

The 614 must be ordered with an adapter cable to work with the PC/GA card. Specify Option 31 when ordering or order as Tektronix part number 012-1095-00.

Graphics Input to the Workstation

Graphics input is provided by a joystick or, optionally, via a Tektronix 4957 Graphics Tablet. The joystick is connected to the Interposer cable supplied with the 614F32 kit and attaches directly to the PC/GA card. The 4957 tablet attaches to the Tablet Adapter supplied with the 614F32 kit and attaches to the IBM Asynchronous Communications Adapter Card.

Connection to IBM Host Computer

The PC/XT or AT may be connected to the IBM host (4361 or similar) using a 3277EM card.

Using this method, the 3277EM card is inserted into an available expansion slot in the PC. This card is then connected to a 3272 Controller or a "B" port of a 3274 by coaxial cable. The card is available from IBM as Field Replaceable Unit No. 8654-373.

Software

Two software diskettes are provided in the 614F32 kit. These diskettes include the IBM 3277 program and utility and demonstration programs.

IBM 3277 Emulator. This is a program which runs on the PC/XT or AT with DOS versions 2.0 or later and causes the PC to emulate an IBM 3277.

Communications Software. This software includes programs to support the communications between the PC/XT or AT and the IBM host via the 3277EM card.

Additional Optional Hardware

A 4631 Hard Copy Unit attaches to the 614 monitor and is used to produce high quality graphics output directly from the storage display screen.

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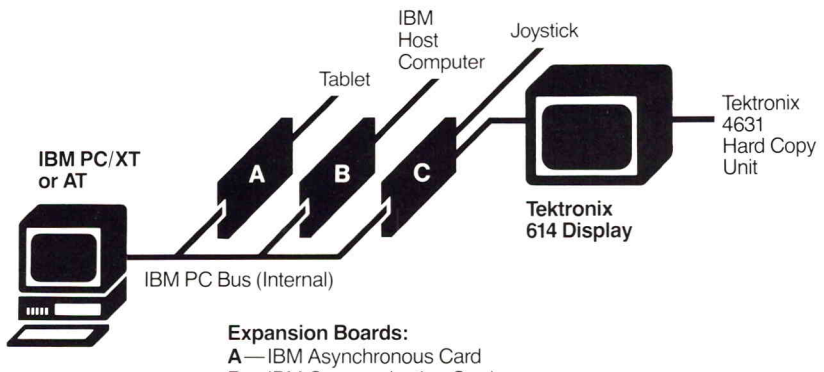
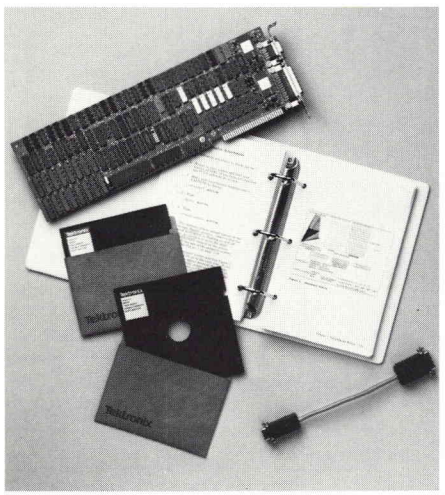
614F32 Graphics Attachment System Diagram



Expansion Boards:
A—IBM Asynchronous Card
B—IBM Communication Card
C—Tektronix Graphics Attachment Card



Application Software from IBM

This PC/XT or AT-based workstation is compatible with the 3277 Graphics Attachment. A wide base of 3277 Graphics Attachment applications software currently available is capable of running on this system when installed on the host system.

The software available depends on the IBM host computer system utilized. For more information on IBM application software compatible with the PC/XT or AT, 614F32, and 614 workstation, contact your local IBM representative.

IBM, PC/XT and Personal Computer AT are trademarks of International Business Machines Corporation.

614F32 Standard Product

- One PC Graphics Attachment (PC/GA) board which plugs into any available full length expansion slot in the PC/XT or AT card cage.
- Interposer cable for connection from the PC/GA board to a joystick.
- Communications adapter for connecting a Tektronix 4957 Tablet to the RS-232C port on the Asynchronous Card of the PC/XT or AT. (Asynchronous Card not included in kit.)
- Foil and Font Maker Application program diskette.
- PC/GA control program software diskette.
- Documentation with complete installation instructions.

614F32 Standard Accessories
Operators Manual

614F32 Optional Accessories
Service Manual

Warranty 90 Days

For further information, contact:

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