

IBM 3194 Advanced Function Displays

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The 3194 is the most powerful of the nine models in the new display station product line. All 3194 display stations are capable of running in CUT or DFT mode. This represents a significant enhancement to the IBM display-station, product line. In the past, DFT mode was restricted to the 3290 gas-plasma display.

The 3194 is almost a PC system with an 8 mhz 80186 microprocessor, 640K of memory and a 720KB 3.5 inch floppy disk drive as standard features. However, there are many incompatibilities between a 3194 and an MS/DOS or OS/2 system. Please read the "Special Features" section before jumping to any conclusions about this product. It's quite sophisticated, but it's not an IBM PC.

Displays

The C series features a 12-inch color screen and supports mod 2 and 3 formats. The C series does not support graphics.

The D series features 15-inch green phosphor screens and supports mod 2, 3, 4, and 5 formats. The D series does not support graphics.

The H series features 14-inch color screens and supports mod 2, 3, 4, and 5 formats. The H series does not support graphics.

Keyboards

The three standard keyboards are offered. The 102 key keyboard is a PC keyboard with 24 function keys. The 104 key is a full, typewriter keyboard with 24 function keys and no numeric pad. The 122 is a full, typewriter keyboard with 24 function keys and a numeric pad. The keyboard is waterproof and can be modified in setup mode. The keycaps can be removed and replaced for specific applications. Each keyboard is bundled with a display, so the second digit of the model number indicates which keyboard is in the bundle.

Special Features

In addition to the standard 640K of memory, you can add a memory upgrade of an additional 192K. A 2MB 3.5 inch floppy drive is also available.

DFT support gives the user the capability of having five host sessions active at once. Four of these sessions can be 3270. With an optional async interface, one of these sessions can be with an ASCII/Async host. The Async feature uses VT100 terminal emulation. The device also supports two notepads and one local "utility session", used to customize the display, manage the diskettes, initiate file transfers, and do maintenance functions like traces, dumps, and patches. The 3194 does not do "windows" in the Macintosh sense, but instead toggles (using a "jump" key) from session to session and provides a "screen split" capability.

Another significant feature is the implementation of an open 3270 API interface on the 3194 products in DFT mode. This allows custom programming of the device allowing multiple host/multiple session capabilities transparent to the end user through application specific API programming (using IBM's HLLAPI). This lets the programmer create "composite" screens from multiple sessions to one or more host applications.

The API applications MUST be downloaded from the host. You cannot store these on the local floppy disk. Development of these custom applications can be done on an IBM PC with your favorite compiler using HLLAPI extensions. This program is then compiled on the PC and uploaded to the host, which distributes it to the devices. A "Device Function Modifier" package is used to develop applications on the 3194 (if you don't want to use a PC). The applications are uploaded to the host for distribution to target 3194's.

The disk drive also lets you use DFT implementations on remote controllers which do not support downline loading of microcode (like the 3174-81R or 82R).

The 3194's operating system has a restricted user "shell." The 3194 does not run MS-DOS programs. It is intended for use in accounts where some local intelligence (for custom API programming) is desirable, but PC implementations are not. This puts control of the device firmly in the hands of MIS management, rather than in those of the end user.

The disk drive format is incompatible with OS/2 and MS/DOS storage formats, so forget about reading a 3194 disk on an MS/DOS or OS/2 compatible disk drive.

The device supports file transfers to IBM IND\$FILE packages under MVS/TSO, VM/CMS, and CICS version 1 release 6 mod 1. You can use this file transfer capability to enhance the API programming and API functionality of the workstations. As the disk storage formats are incompatible with the MS/DOS or OS/2 product line, you cannot share this data with a MS/DOS or OS/2 compatible disk drive. The local Utility session capability lets the user initiate file transfers with IND\$FILE mainframes. File transfers may also be initiated by a custom API program.

All 3194 displays support the printer-port feature. All 3194's support the Record/Play/Pause feature, through which the user can store up to 1500 characters and "play back" or modify these characters. 3194's have internal

baluns and use a special IBM cable with a special keyed connector with a co-axial attachment at one end and an RJ11 on the other. Pricing _____ The 3194 series devices are priced as follows (list price as of 8/17/88) One-year warranties are offered with all 3194's. C series \$2495-\$2695 D series \$2195-\$2395 H series \$2895-\$3095 Memory Upgrade \$325 ASCII feature \$325 Internal Balun special cable \$15.00 Copyright 1989 Apple Computer, Inc. Keywords: <None> This information is from the Apple Technical Information Library. 19960215 11:05:19.00 Tech Info Library Article Number: 4217