

## FEATURES

- MS-DOS 6.22 equivalent operating system for disk-based and diskless embedded systems
- Supports all INT 21h DOS calls
- Supports installable device drivers
- Support for DOS file system for applications that require file I/O
- Executes standard .EXE, .COM and .BAT files
- Does not require a keyboard, video or rotational media
- Can boot directly from solid state disk

ROM-DOS is a work-alike version of MS-DOS version 6.22. It is designed for embedded and mobile computing environments. ROM-DOS works with WinSystems' STD Bus and embedded PCs using the V40, V53, 80386SX, 80486DX or 5x86 series microprocessors. This results in a low cost system with access to PC-based tools and DOS functionality.

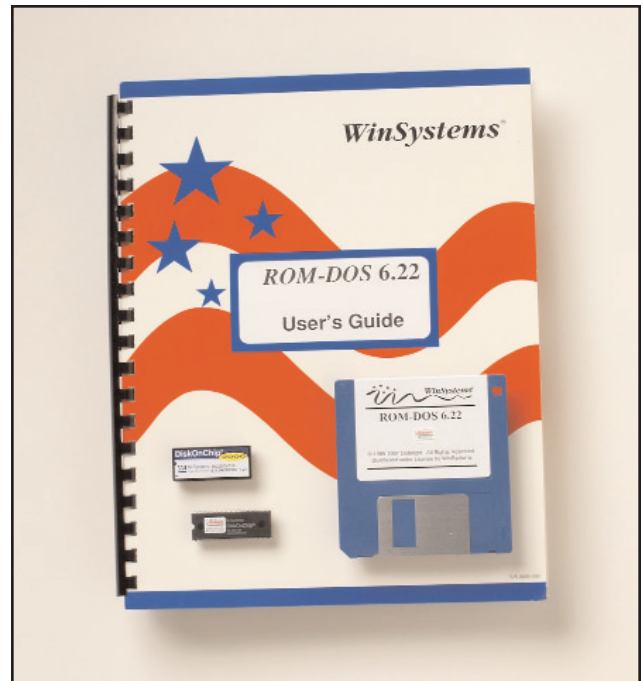
ROM-DOS is suitable for a number of rugged applications such as embedded controllers, portable instruments, industrial data acquisition and control, vehicle data logging, security systems, medical instrumentation, and diskless systems. It does not require a keyboard, video or rotational media to function which is ideal for embedded control applications.

## FUNCTIONAL CAPABILITY

The ROM-DOS operating system enables a user to place the DOS application in a disk-based or diskless embedded system and have it start running immediately after power is applied. ROM-DOS supports all documented INT 21 hex DOS Services.

The booting process is started when power is applied to the system. The BIOS initializes the hardware and transfers control to ROM-DOS. ROM-DOS then performs its own initialization and loads the user's application program for execution. The user's program is then given control and typically remains running until the power is turned off.

Designed especially for programmers designing embedded systems software, ROM-DOS provides two major functions: MS-DOS compatible file support and standard device drivers. ROM-DOS provides a DOS-level environment that minimizes ROMing restrictions of the application code.



Programs can be written in Assembly, C, or high-level languages such as Pascal or compiled BASIC. It supports standard MS-DOS file structures greatly simplify data storage and retrieval. Since the programmer is familiar with the PC-operating environment, a shorter learning curve will occur.

All development can be done on a PC and the code debugged on either a PC or the target system, which completes the project in the shortest time. ROM-DOS is available in 4 different configurations from license stickers to complete development systems.

**ROM-DOS Diskette** - WinSystems offers ROM-DOS on a 3.5" floppy disk with operations manual and license sticker. This product is called RDOS-6.22 which is a full, cost-effective MS-DOS 6.22 compatible operating system for embedded or mobile applications. It will boot from ROM, floppy, or hard disk; however, the distribution media is a floppy disk.

**License Stickers** - For OEMs that need only a license but not the manual or distribution media, WinSystems offers just a permanent sticker for the board. It is ordered by part number 910-0001-000. It is the most cost effective way to license ROM-DOS for your volume production.

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**Silicon Disks** - WinSystems offers ROM-DOS loaded in a Flash memory device as a bootable device. It is configured with various capacity Flash memories for most of WinSystems' single board computers. The part number is RSD-MD2200-DXX. The XX designates the density from 8MB to 288MB.

**ROM-DOS Developers Kit** - A full ROM-DOS Developers Kit is available called the RDK. A RDK is supplied with ROM-DOS, a power supply, board specific interface cables, Flash memory and a Power On System Test (POST) card. The part number is RDK-XXX. The XXX is a variable length part number suffix that specifies the computer board supported and the amount of memory.

## **ORDERING INFORMATION**

Please contact a WinSystems' application engineer at (817) 274-7553, FAX (817) 548-1358 or [info@winsystems.com](mailto:info@winsystems.com) for the various ROM-DOS configurations and pricing for WinSystems' SBCs, PC/104 and STD Bus computers.

