DIGITAL’s 11V03-L is a floppy-disk-based microcomputer system, while the 11T03-L is a hard-disk-based microcomputer system, and both are designed to save money, time and effort for OEMs. These powerful, proven packages combine operating system software with complete hardware configurations at considerably lower cost than the sum of the component prices. They’re simple to use, simple to install, and totally compatible with the rest of the PDP-11 family—so you can build larger or smaller systems without scrapping your original software. And like all PDP-11s, our packaged systems give you the worldwide service and support that OEMs have come to expect from DIGITAL.

APPLICATIONS—These systems are ideal small business configurations, and allow OEMs in this field to buy the necessary hardware in one simple purchase. They are also perfect development tools for OEMs who plan to use smaller 11/03s or LSI-11s in instrumentation, control or communications systems.

SYSTEM COMPONENTS

The 11V03-L packaged system includes:

- RX02 Disk Subsystem consisting of a control unit and two industry-standard RX02 Floppy Disk Drives with a combined storage capacity of one million bytes.
- Caster-equipped, 31-inch-tall (778 mm) equipment cabinet.

- 11/03-L central processor with 32KB of MOS memory, line frequency clock, BDV11-A/AA bootstrap/diagnosis/RSDS PROM and serial line interface.
- Extended/floating-point instruction set that provides integer multiply and divide, arithmetic shifts and single or double precision floating-point arithmetic.
- Universal power supplies that permit easy conversion between 115 and 230V/50-60Hz.
- A complete range of interfaces and peripherals.
- RSX-11S multiprogramming operating system.

In its packaged system version, 11/03-L also includes an extended/float­ing-point instruction set that boosts the system’s FORTRAN capacity (32KB) in the 11V03 system) or 64KB (11T03-L) of MOS memory and the BDV11-A/AA module, which provides bootstrap capabilities, efficient system diagnostics and space for up to 32KB of additional memory (as user-supplied ROM or UV-erasable PROM). A newly-designed 9-slot backplane leaves plenty of room and flexibility for expansion, while helping OEMs save logic space and money. All in all, it’s the most powerful, easiest-to-use microcomputer you can buy.

RX02 DISK SUBSYSTEM (11V03-L)

The 11V03-L system includes the RX02 double-density floppy disk—a highly reliable, low-cost device able to store up to 512K bytes per diskette in an industry-compatible format. The RX02 subsystem consists of two drives, a read/write module, microprogrammed control module and power supply, all housed in a 10-inch rack-mountable, self-cooled chassis. Direct Memory Access capability significantly enhances system throughput and response time in many applications.

To assure data integrity, RX02 performs parity checks and cyclic redundancy checks. Upon initialization, the controller automatically performs a wrap-around test of the read/write circuits and will initiate operation only upon satisfactory completion of the test. A variety of error messages combine with simplified mechanical design to help facilitate maintenance. In terms of performance, average access time (including head positioning and settling and rotational latency) is less than 483 milliseconds, and average transfer rate is 20K bytes per second.

RL01 DISK SUBSYSTEM (11T03-L)

The RL01, DIGITAL’s newest medium capacity cartridge disk subsystem, combines state-of-the-art technology and convenient top-loading design with reliability and maintainability features specifically designed to keep its cost of ownership low. Completely designed and built by DIGITAL, the RL01 Disk Subsystem includes a control unit capable of handling up to four rack-mounted cartridge disk drives. Each drive has an on-line storage capacity of 5.2 million bytes. Several features assure data integrity, and direct memory access capability enhances throughput and response time. Average access time, including both head positioning time and rotational latency, is less than 68 milliseconds, and average transfer rate is 52.5K bytes/second.

TERMINALS

The systems include one of three terminals. All three are asynchronous, serial devices and are available in 20 mA (for inexpensive local data transmission) or EIA (for remote modem transmission) versions.

- LA36 DECwriter II is a compact, quiet, 300-baud keyboard printer that serves as an economical hardcopy terminal in remote or local I/O applications. It offers improved throughput, reliability, print quality, and form handling versatility at a price well below comparable keyboard printers. It is a fast—true 30-cps with a full 132-character width—and versatile—uses five parts from 3 to 12 inches (76-338 mm) wide. Standard on DECwriter II is a 129-character ASCII keyboard, 96 upper and lower case characters, symbol printing set, 32 control characters, and a 14-key numeric keypad.

- VT52 is DIGITAL’s popular standard video terminal, with an attached typewriter-like keyboard and numeric/function keypad. The 24-line, 80-column screen displays 96 ASCII characters (upper and lower case) and 32 graphic characters as white symbols (7 x 7 dot matrix) on a dark field. Transmission rates are switch-selectable from 75-9600 baud, and the simplified mechanics keep maintenance costs to a minimum.

OPERATING SYSTEM SOFTWARE

RT-11, a single-user, full-function operating system, is a standard component of these packaged systems. Depending on your needs, you can order this software with your choice of support services, at corresponding prices.

RT-11 is a high-performance disk-based package designed for interactive program development and on-line applications. It supports both single-job (SJ) and foreground/background (FB) processing, while providing fast response to real-time situations. The system provides SJ and FB monitors, a file management system, several utilities, and all the tools needed for program development and execution in MACRO assembly language. The system is the recommended operating environment for all DIGITAL-supplied software, and both are designed to save money, time and effort for OEMs.

Both RL01 and RX02 disk subsystems will be available as options. Each is furnished with all necessary hardware in one simple purchase. They can be used as stand-alone disk subsystems or installed with the main CPU as an integral part of the CPU. The RL01 and RX02 disk subsystems are compatible with the rest of the PDP-11 family, and both are designed to save money, time and effort for OEMs. Both subsystems are also perfect development tools for OEMs who plan to use smaller 11/03s or LSI-11s in instrumentation, control or communications systems.

These high performance, complete microcomputer systems offer OEMs great flexibility at very low prices. For further information or detailed literature, call your DIGITAL sales representative.