Desktop Computer System Features Software Flexibility

The Z80 based System 10, a product of Gnat Computers, Inc, 7895 Convoy Ct, Bldg 6, San Diego, CA 92111, utilizes a screen editor, assembler, and CP/M version 2 disc operating system along with optional supporting software, including BASIC, FORTRAN, Pascal, and COBOL. Also included are 65k bytes of RAM, 700k bytes of dual-density, double-sided disc storage, a hard disc interface, DMA and interrupt controllers, and 3 serial I/O channels, 2 RS-232 and 1 IRS-449.

operating at 12 MHz, is available to assist in development debugging of hardware and software for any of the 8051 family chips.
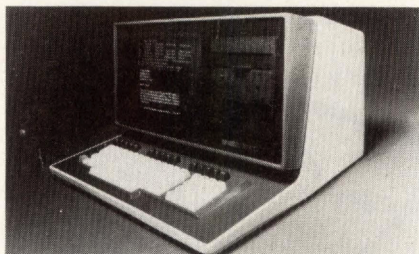
Multiply, divide, subtract with borrow, and compare instructions are new to the 8051 family. An unsigned 8-bit by 8-bit multiply or divide can be executed in 4 μs; most instructions execute in 1 μs.

Supporting the expanded capabilities of the 8051 family, 8048 single-chip microcomputers being produced with HMOS technology offer advantages over the previous NMOS technology versions. The 8-MHz 8048H and 11-MHz 8048-1 provide increases in performance of 33 and 80%, respectively. Power consumption is reduced from 675 mW to 400 mW, and all existing 8048 hardware and software are directly compatible with the HMOS chips.

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Directed toward small business data processing, word processing, office automation, and mainframe computer intelligent terminal applications, the system may be optionally configured with a 9511/9512 arithmetic processor and an IEEE-448 bus interface. Video display is provided by a 12″ (30-cm) CRT arranged in an 80 x 25 format with 8 x 12 dot matrix characters. A Selectric style keyboard includes an accounting keypad and 10 programmable function keys. All keys utilize capacitive action. The CRT is controlled by a separate microprocessor on the video board, which also handles keyboard data and graphics capabilities.

A power sense read/write protect circuit allows diskettes to remain in the drives during power application and removal and the high speed, hard disc interface provides for up to 80M bytes

System 10 desktop computer system includes monitor, diagnostics, and CP/M disc operating system. Optional software for word processing, accounts receivable/payable, payroll and cost accounting, and general ledger is available in BASIC, FORTRAN, COBOL, Pascal, C, and PL/1

of external storage. SDLC, HDLC, and BISYNC protocol capabilities, along with software-selectable baud rates for printer and modem interfacing provide for a variety of extended communication applications. The switching power supply is rfi filtered and enclosed in the system's 21 x 21 x 13″ (53 x 53 x 33-cm) cabinet.

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