

8K EPROM MICROCOMPUTERS

- COMPLETE MICROCOMPUTER, 8K BYTES OF EPROM 240 BYTES OF RAM 32 I/O LINES, AND UP TO 56K BYTES ADDRESSABLE EXTERNAL SPACE EACH FOR PROGRAM AND DATA MEMORY. FULLY COMPATIBLE WITH STANDARD ROM VERSION
- 256-BYTE REGISTER FILE, INCLUDING 236 GENERAL-PURPOSE REGISTERS, FOUR I/O PORT REGISTERS, AND 16 STATUS AND CONTROL REGISTERS
- MINIMUM INSTRUCTION EXECUTION TIME 1 μ s AT 12MHz
- VECTORED PRIORITY INTERRUPTS FOR I/O, COUNTER/TIMERS, AND UART
- FULL-DUPLEX UART AND TWO PROGRAMMABLE 8-BIT COUNTER/TIMERS, EACH WITH A 6-BIT PROGRAMMABLE PRESCALER
- REGISTER POINTER SO THAT SHORT, FAST INSTRUCTIONS CAN ACCESS ANY OF SIXTEEN WORKING-REGISTER GROUPS IN 1.5 μ s (8MHz)
- ON-CHIP OSCILLATOR WHICH ACCEPTS CRYSTAL OR EXTERNAL CLOCK DRIVE
- THREE EPROM PROGRAMMING MODES :
 - Eprom-like, using a standard EPROM programmer.
 - Self-Programming during normal program execution.
 - An off-chip EPROM provides a program/verify facility to allow a simple and time-efficient autoloading operation.
- INTEGRATED PROGRAMMABLE PROTECTIONS AVOID EPROM CONTENT READOUT
- AVAILABLE IN 8MHz AND 12MHz VERSIONS.
- SINGLE 5V SUPPLY VOLTAGE
- ALL PINS TTL COMPATIBLE
- 40-PIN DUAL-IN-LINE WINDOW AND 44-LEAD CERAMIC LEADED WINDOW CHIP CARRIER PACKAGES AVAILABLE
- THE DEVICE IS ALSO AVAILABLE AS ONE TIME PROGRAMMABLE (OTP) VERSION

BLOCK DIAGRAM