

Z86E21

Z G Z-THOMZON

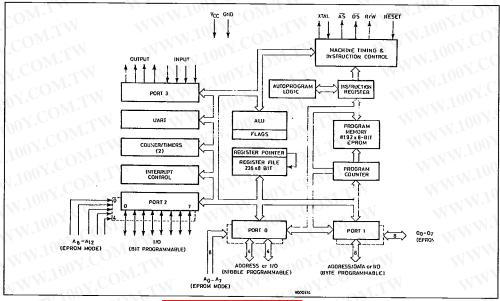
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8K EPROM MICROCOMPUTERS

- COMPLETE MICROCOMPUTER, 8K BYTES OF EPROM 240 BYTES OF RAM 32 I/O LINES, AND UP TO 56K BYTES ADDRESSABLE EX-TERNAL 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 1µs AT 12MHz
- VECTORED PRIORITY INTERRUPTS FOR I/O, COUNTER/TIMERS. AND UART
- FULL-DUPLEX UART AND TWO PROGRAM-MABLE 8-BIT COUNTER/TIMERS, EACH WITH A 6-BIT PROGRAMMABLE PRESCALER
- REGISTER POINTER SO THAT SHORT, FAST INSTRUCTIONS CAN ACCESS ANY OF SIX-TEEN WORKING-REGISTER GROUPS IN 1.5µs (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



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