



SGS-THOMSON
MICROELECTRONICS

Z8601
Z8611

SGS-THOMSON

30E D

2K AND 4K ROM MICROCOMPUTERS

- COMPLETE MICROCOMPUTER, 2K OR 4K BYTES OF ROM, 128 BYTES OF RAM, 32 I/O LINES, AND UP TO 60K BYTES ADDRESSABLE EXTERNAL SPACE EACH FOR PROGRAM AND DATA MEMORY
- 144-BYTES REGISTER FILE, INCLUDING 124 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 PROGRAM-MABLE 8-BIT COUNTER/TIMERS, EACH WITH A 6-BIT PROGRAMMABLE PRESCALER
- REGISTER POINTER SO THAT SHORT, FAST INSTRUCTIONS CAN ACCESS ANY OF NINE WORKING-REGISTER GROUPS IN 1 μ s (12MHz)
- ON-CHIP OSCILLATOR WHICH ACCEPTS CRYSTAL OR EXTERNAL CLOCK DRIVE
- AVAILABLE IN 8MHz AND 12MHz VERSIONS
- SINGLE 5V SUPPLY VOLTAGE
- ALL PINS TTL COMPATIBLE
- 40-PIN DUAL-IN-LINE AND 44-LEAD CHIP CARRIER PACKAGES AVAILABLE

BLOCK DIAGRAM

