SGS-THOMSON
MICROELECTRONICS
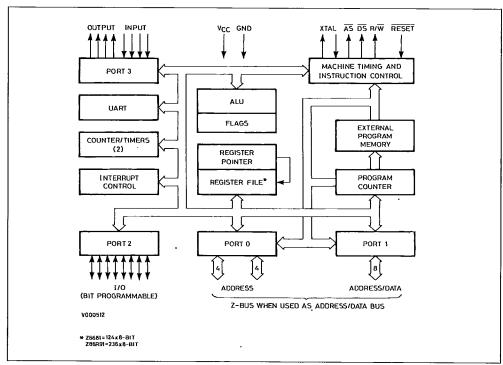
Z8681
Z86R91

S G S-THOMSON   30E D

ROMLESS MICROCOMPUTERS

- COMPLETE MICROCOMPUTER, 24 I/O LINES, AND UP TO 64K BYTES OF ADDRESSABLE EXTERNAL SPACE EACH FOR PROGRAM AND DATA MEMORY
- 143-BYTE REGISTER FILE, INCLUDING 124 GENERAL-PURPOSE REGISTERS, THREE I/O PORT REGISTERS, AND 16 STATUS AND CONTROL REGISTERS, FOR THE Z8681
- 254-BYTE REGISTER FILE, INCLUDING 236 GENERAL-PURPOSE REGISTERS, TWO I/O PORT REGISTERS, AND 16 STATUS AND CONTROL REGISTERS, FOR THE Z86R91
- 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 ONE OF THE 9 (Z8681) AND 15 (Z86R91) WORKING-REGISTER GROUPS
- ON-CHIP OSCILLATOR THAT 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