



| Block Diagram | | | | | | | | | |
|--------------------|--|---|--|---|---|---|---|--|---|
| Part # | Z84C50 | Z84C90 | Z84013/C13 | Z84015/C15 | Z84011/C11 | Z80180/S180 | Z80280 | Z80181 | Z80182 |
| Description | Z80/84C01 with 2K SRAM | Killer I/O (3 Z80 peripherals) | Intelligent Peripheral Controller | Intelligent Peripheral Controller | Parallel I/O Controller | High-performance Z80® CPU with peripherals | 16-bit Z80® code compatible CPU with peripherals | Smart Access Controller | Zilog Intelligent Peripheral |
| Speed MHz | 10 | 8, 10, 12.5 | 6, 10 | 6, 10, 16 | 6, 10 | 6, 8, 10, 16*, 20* *Z8S180 only | 10, 12 | 10, 12.5 | 16, 20 |
| Features | Z80® CPU 2 Kbytes SRAM WSG Oscillator Pin compatible with Z84C00 DIP & PLCC EV mode ¹ *84C01 is available as a separate part | SIO, PIO, CTC plus 8 I/O lines | Z80® CPU, SIO, CTC WDT, CGC, WSG, Power-On Reset 2 chip selects EV mode ¹ | Z80® CPU, SIO, CTC WDT, CGC The Z80 Family in one device Power-On Reset Two chip selects 32-bit CRC WSG EV mode ¹ | Z80® CPU, CTC, WDT 40 I/O lines bit programmable Power-On Reset EV mode ¹ | Enhanced Z80 CPU MMU 1 Mbyte 2 DMAs 2 UARTs with BRGs C/Serial I/O Port Oscillator Z8S180 includes; Pwr dwn, Prgmble EMI, divide-by-one clock option | 16-bit code compatible Z80® CPU Three stage pipeline MMU 16 Mbyte CACHE 256 byte Inst. & Data Peripherals 4 DMAs, UART, 3 16-bit C/T, WSG Z80/Z-BUS® interface | Complete Z180 plus SCC/2 CTC 16 I/O lines Emulation Mode ¹ | Complete Static Version of Z180™ plus ESCC (2 channels of Z85230) 16550 MIMIC 24 Parallel I/O Emulation Modes ¹ |
| Package | 40-pin DIP 44-pin PLCC 44-pin QFP | 84-pin PLCC | 84-pin PLCC | 100-pin QFP 100-pin VQFP | 100-pin QFP | 64-pin DIP 68-pin PLCC 80-pin QFP | 68-pin PLCC | 100-pin QFP | 100-pin QFP 100-pin VQFP |
| Application | Embedded Control | General-purpose peripheral that can be used with Z80 and other CPUs | Intelligent datacom controllers | Intelligent peripheral controllers Modems | Intelligent parallel-I/O controllers Industrial display terminals | Embedded Control | Embedded Control Terminals Printers | Intelligent peripheral controllers Printers Faxes Modems Terminals | General-Purpose Embedded Control Modem Fax Data Communications |