

ZILCOS Z80[®] EMBEDDED CONTROLLERS

SUPERINTEGRATION PRODUCTS GUIDE

| BLOCK DIAGRAM | 2 DMA Z80 CPU MMU OSC | CTC 16 I/O Z180 | SCC/2 (85C30/2) Z180 | 24 I/O 85230 16550 ESCC MIMIC (2 CH) S180 | Clock w/ Standby Control Refresh Control Chip Selects and Wait 16-BIT CPU |
|-------------------------|--|--|---|---|---|
| PART NUMBER | Z80180/Z8S180/Z8L180 | Z80181 | Z80182/Z8L182 | Z80380/Z8L380 | |
| DESCRIPTION | High-Performance Z80 [®] CPU with Peripherals Z8S180 = Static Version Z8L180 = Low-Voltage Version | Smart Access Controller | Zilog Intelligent Peripheral (ZIP [™]) Z8L182 = Low-Voltage Version | Z380 [™] Microprocessor Z8L380 = Low-Voltage Z380 | |
| PROCESS/SPEED | Z80180 = CMOS: 6, 8, 10, MHz Z8S180 = CMOS: 16 MHz Z8L180 = CMOS: 20, 33 MHz | CMOS: 10, 12 MHz | Z80182 = CMOS: 16, 33 MHz Z8L182 = CMOS: 20 MHz | Z8L380 = CMOS: 10 MHz Z80380 = CMOS: 16, 18 MHz | |
| FEATURES | <ul style="list-style-type: none"> ■ Enhanced Z80[®] CPU ■ 1 Mbyte MMU ■ 2 DMAs ■ 2 UARTs with Baud Rate Generators ■ C/Serial I/O Port Oscillator ■ Z8S180 Includes: <ul style="list-style-type: none"> - Power-Down - Programmable EMI - Divide-By-One - Clock Option - 3.3V and 5V Version | <ul style="list-style-type: none"> ■ Complete Z180[™] plus SCC/2 Counter/Timer Circuit ■ 16 I/O Lines ■ Emulation Mode | <ul style="list-style-type: none"> ■ Static Version of Z180[™] plus ESCC (2 Channels of Z85230 with 32-Bit CRC Not Available for 16 MHz) ■ 16550 MIMIC ■ 24 Parallel I/O ■ Emulation Mode ■ 3.3V and 5V Version | <ul style="list-style-type: none"> ■ 16/32-Bit MPU ■ Internal 32-Bit Datapaths and ALU ■ 2 Clocks/Cycle Instruction Execution up to 4 Gbytes of Linear Addressing ■ Enhanced Instruction Set ■ 4 Banks of On-Chip Register Files ■ Object-Code Compatible with Z80/Z180 Microprocessors up to 6 Programmable Memory Chip Selects ■ 3.3V and 5V Version | |
| PACKAGE | 64-Pin DIP 68-Pin PLCC 80-Pin QFP | 100-Pin QFP | 100-Pin QFP 100-Pin VQFP | 100-Pin QFP | |
| SUPPORT PRODUCTS | Z8S1800ZCO - Evaluation Board ZEPMIP00001 - EPM [™] Manual | Z8018100ZCO - Evaluation Board Z8018100ZDP - Adaptor Kit Z8018101ZCO* - Evaluation Board * Includes LLAP software that can be licensed (Z80181Z46) ZEPMIP00001 - EPM [™] Manual | Z8018200ZCO - Evaluation Board ZEPMIP00002 - EPM [™] Manual | Z8038000ZCO - Evaluation Board ZEPMIP00003 - EPM [™] Manual | |