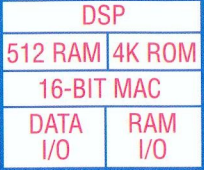
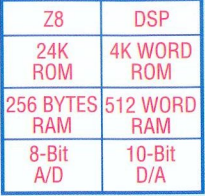
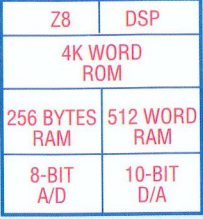

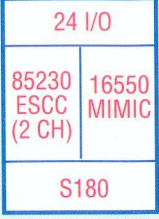




	Data Pump	Single Chip		Controllers			
<b>Block Diagram</b>							
<b>Part #</b>	<b>Z89C00</b>	<b>Z89120</b>	<b>Z89920</b>	<b>Z84C15</b>	<b>Z80182</b>	<b>Z80180</b>	<b>Z85230</b>
<b>Description</b>	16-Bit Digital Signal Processor	Zilog Modem/Fax Controller (ZMFC)	Zilog Modem/Fax Controller (ZMFC)	IPC/EIPC Controller	Zilog Intelligent Peripheral (ZIP™)	High-performance Z80® CPU with peripherals	Enhanced Serial Com. Controller
<b>Process/Speed</b>	CMOS 10, 15 MHz	CMOS 20 MHz	CMOS 20 MHz	CMOS 6, 10, 16 MHz	CMOS 16, 20 MHz	6, 8, 10, 16*, 20* *Z8S180 only	CMOS 8, 10, 16, 20 MHz
<b>Features</b>	16-bit Mac 75 ns 2 data RAMs (256 words each) 4K word ROM 64Kx16 Ext. ROM 16-bit I/O Port 74 instructions Most single cycle Two conditional branch inputs, two user outputs Library of software macros available Zero overhead pointers	Z8® controller with 24 Kbyte ROM 16-bit DSP with 4K word ROM 8-bit A/D 10-bit D/A (PWM) Library of software macros available 47 I/O pins Two comparators Independent Z8® and DSP Operations Power-Down Mode	Z8 w/64K external memory DSP w/4K word ROM 8-bit A/D 10-bit D/A Library of macros 47 I/O pins 2 comparators Independent Z8® and DSP Operations Power-Down Mode	Z80® CPU, SIO, CTC WDT, CGC The Z80 Family in one device Power-On Reset Two chip selects 32-bit CRC WSG EV mode <sup>1</sup> 3 and 5 Volt Version	Complete Static Version of Z180™ plus ESCC (2 channels of Z85230) 16550 MIMIC 24 Parallel I/O Emulation Modes <sup>1</sup>	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	Full dual-channel SCC plus deeper FIFOs: 4 bytes on Tx 8 bytes on Rx DPLL counter per channel Software compatible to SCC
<b>Package</b>	68-pin PLCC 60-pin VQFP	68-pin PLCC	68-pin PLCC	100-pin QFP 100-pin VQFP	100-pin QFP 100-pin VQFP	64-pin DIP 68-pin PLCC 80-pin QFP	40-pin DIP 44-pin PLCC
<b>Other Applications</b>	16-bit General-Purpose DSP TMS 32010/20/25 applications	Multimedia-Audio Voicemail Speech Storage and Transmission Modems Faxes, Sonabuys	Multimedia-Audio Voicemail Speech Storage and Transmission Modems Faxes, Sonabuys	Intelligent peripheral controllers Modems	General-Purpose Embedded Control Modem Fax Data Communications	Embedded Control	General-Purpose Datacom. High performance SCC software compatible upgrade