


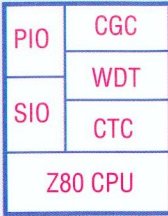
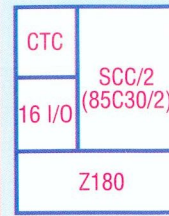
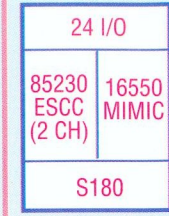


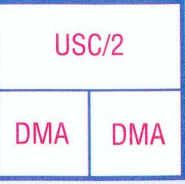


Block Diagram									
Part #	<b>Z8030/Z80C30 Z8530/Z85C30</b>	<b>Z85230/Z80230 Z85233*</b>	<b>Z16C35</b>	<b>Z84C15</b>	<b>Z80181</b>	<b>Z80182</b>	<b>Z16C30</b>	<b>Z16C33</b>	<b>Z16C32</b>
Description	Serial Com. Controller	Enhanced Serial Com. Controller	Integrated Serial Com. Controller	Intelligent Peripheral Controller	Smart Access Controller	Zilog Intelligent Peripheral	Universal Serial Controller	Mono-channel Universal Serial Controller	Integrated Universal Serial Controller
Process/Speed/Clock Data Rate	NMOS: 4, 6, 8 MHz CMOS: 8, 10, 16 MHz 2, 2.5, 4 Mb/s	CMOS: 10, 16, 20 MHz 2.5, 4.0, 5.0 Mb/s	CMOS: 10, 16 MHz 2.5, 4.0 Mb/s	CMOS 6, 10, 16 MHz	10, 12.5	CMOS 16, 20 MHz	CMOS: 20 MHz CPU Bus 10 Mb/s 20 Mb/s	CMOS: 10 MHz CPU Bus 10 Mb/s	CMOS: 20 MHz CPU Bus 16 Mb/s 20 Mb/s
Features	Two independent full-duplex channels Enhanced DMA support: 10x19 status FIFO 14-bit byte counter NRZ/NRZI/FM	Full dual-channel SCC plus deeper FIFOs: 4 bytes on Tx 8 bytes on Rx DPLL counter per channel Software compatible to SCC *One channel of Z85230	Full dual-channel SCC plus 4 DMA controllers and a bus interface unit	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 Z180™ plus SCC/2 CTC 16 I/O lines Emulation Mode <sup>1</sup>	Complete Static version of Z180 plus ESCC™ (2 channels of 85230) 16550 MIMIC 24 Parallel I/O Emulation Mode <sup>1</sup>	Two dual-channel 32-byte receive & transmit FIFOs 16-bit bus B/W: 18.2 Mb/s 2 BRGs per channel Flexible 8/16-bit bus interface	Single-channel (half of USC™) plus Time Slot Assigner functions for ISDN	Single-channel (half of USC™) plus two DMA controllers Array chained and linked-list modes with ring buffer support
Package	40-pin DIP 44-pin CERDIP 44-pin PLCC	40-pin DIP 44-pin PLCC *44-pin QFP (85233)	68-pin PLCC	100-pin QFP 100-pin VQFP	100-pin QFP	100-pin QFP 100-pin VQFP	68-pin PLCC	68-pin PLCC	68-pin PLCC
Application	General-Purpose datacom.	General-Purpose datacom. High performance SCC software	High performance datacom. SCC upgrades	Intelligent peripheral controllers Modems	Intelligent peripheral controllers Printers, Faxes, Modems, Terminals	General-Purpose Embedded Control Modem Fax Data Communications	General-Purpose High-End Datacom. Ethernet HDLC X.25 Frame Relay	General-Purpose High-end datacom. Ethernet HDLC X.25 Frame Relay	General-Purpose High-end Datacom. Ethernet HDLC X.25 Frame Relay