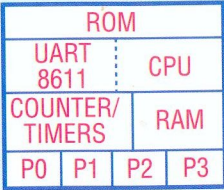
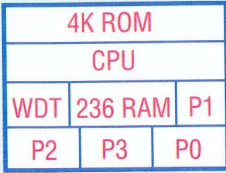

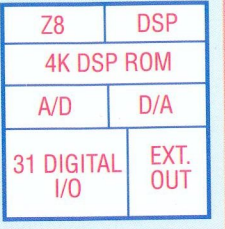
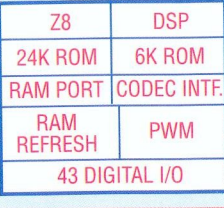
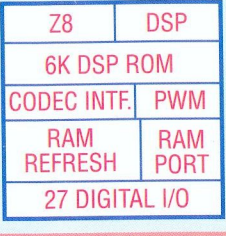




Telephone Answering Devices

Block Diagram						
Part #	Z08600/Z08611	Z86C30/E30 Z86C40/E40	Z89C65	Z89C66	Z89C67	Z89C68
Description	Z8® NMOS (CCP™) 8600 = 2K ROM 8611 = 4K ROM	Z8® Consumer Controller Processor (CCP™) with 4K ROM C30 = 28-pin C40 = 40-pin E30/E40 = OTP version	Telephone Answering Controller with DSP LPC voice synthesis and DTMF detection	Telephone Answering Controller with DSP LPC voice synthesis and DTMF detection and external ROM/RAM interface	Telephone Answering Controller with digital voice encode and decode DTMF detection and full memory control interface	Telephone Answering Controller with digital voice encode and decode DTMF detection and external ROM/RAM interface
Process/Speed	NMOS 8,12 MHz	CMOS 12 MHz	CMOS 20 MHz	CMOS 20 MHz	CMOS 20 MHz	CMOS 20 MHz
Features	2K/4K ROM 128 Bytes RAM 22/32 I/O lines On-chip oscillator 2 Counter/Timers 6 vectored, priority interrupts UART (Z8611)	4K ROM, 236 RAM 2 Standby Modes 2 Counter/Timers ROM Protect RAM Protect 4 Ports (86C40/E40) 3 Ports (86C30/E30) Brown-Out Protection 2 Analog Comparators Low EMI Watch-Dog Timer Auto Power-On Reset Low Power option	Z8® Controller 24K ROM 16-bit DSP 4K Word ROM 8-bit A/D with AGC DTMF macro available LPC macro available 10-bit PWM D/A Other DSP software options available 47 I/O Pins	Z8® Controller 16-bit DSP 4K Word ROM 8-bit A/D with AGC DTMF macro available LPC macro available 10-bit PWM D/A Other DSP software options available External ROM/RAM capability 31 I/O Pins	Z8® Controller 24K ROM 16-bit DSP 6K Word ROM DTMF macro available LPC macro available 10-bit PWM D/A Other DSP software options available ARAM/DRAM/ROM Controller & Interface Dual Codec Interface 43 I/O	Z8® Controller 64K ROM (external) 16-bit DSP, 6K word ROM DTMF macro available LPC macro available 10-bit PWM D/A Other DSP software options available ARAM/DRAM control/interface External ROM/RAM Dual Codec Interface 27 I/O
Package	28-pin DIP 40-pin DIP 44-pin PLCC	28-pin DIP 40-pin DIP 44-pin PLCC, QFP	68-pin PLCC	68-pin PLCC	84-pin PLCC	84-pin PLCC
Application	Low cost tape board TAD	Window Control Wiper Control Sunroof Control Security Systems TAD	Fully featured cassette answering machines with voice prompts and DTMF signaling	General-Purpose DSP applications in TAD and other high-performance 1-tape voice processors	Voice Processing, DSP applications in tapeless TAD and other high-performance 1-tape voice processors	Voice Processing, DSP applications in tapeless TAD and other high-performance 1-tape voice processors