

BLOCK DIAGRAM	<table border="1"> <tr> <td>Bus I/F</td> <td>DAC I/F</td> </tr> <tr> <td>Sample Rate Generator</td> <td></td> </tr> <tr> <td>Sound Blaster Command Set Interpreter</td> <td></td> </tr> <tr> <td>MIDI Interface</td> <td></td> </tr> </table>	Bus I/F	DAC I/F	Sample Rate Generator		Sound Blaster Command Set Interpreter		MIDI Interface		<table border="1"> <tr> <td colspan="2">DSP</td> </tr> <tr> <td>512 RAM</td> <td>4K ROM</td> </tr> <tr> <td colspan="2">16-BIT MAC</td> </tr> <tr> <td>Peripherals Interface</td> <td></td> </tr> </table>	DSP		512 RAM	4K ROM	16-BIT MAC		Peripherals Interface		<table border="1"> <tr> <td colspan="2">DSP</td> </tr> <tr> <td>512 RAM</td> <td>4K ROM</td> </tr> <tr> <td colspan="2">16-BIT MAC</td> </tr> <tr> <td>Peripherals Interface</td> <td>Codec I/F</td> </tr> </table>	DSP		512 RAM	4K ROM	16-BIT MAC		Peripherals Interface	Codec I/F	<table border="1"> <tr> <td colspan="2">ISA Bus I/F</td> </tr> <tr> <td>DMA Logic</td> <td>Interface Logic</td> </tr> <tr> <td>Interrupt Logic</td> <td>Control Logic</td> </tr> <tr> <td colspan="2">Registers</td> </tr> </table>	ISA Bus I/F		DMA Logic	Interface Logic	Interrupt Logic	Control Logic	Registers	
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PART NUMBER	Z89321	Z89320	Z89321/Z89371	Z5380																																
DESCRIPTION	8-Bit Digital Audio Processor	16-Bit Digital Signal Processor	16-Bit Digital Signal Processor Z89371= OTP Version	Small Computer System Interface (SCSI)																																
PROCESS/SPEED	CMOS: 12 MHz	CMOS: 10 MHz	CMOS: 20 MHz	Clock: 1.5 Mbytes																																
FEATURES	<ul style="list-style-type: none"> ■ Sound Blaster™ Compatible ■ ADPCM Decompression ■ 8-Bit DAC Interface ■ Successive Approximation ADC Algorithm ■ MIDI Interface 	<ul style="list-style-type: none"> ■ 16-Bit Multiply/Accumulate ■ 100 ns ■ 512 Word RAM ■ 4K Word RAM ■ Peripherals Interface Bus ■ 74 Instruction Set 	<ul style="list-style-type: none"> ■ 16-Bit Multiply/Accumulate ■ 50 μs ■ 512 Word RAM ■ 4K Word ROM ■ Peripherals Interface Bus ■ CODEC Interface 	<ul style="list-style-type: none"> ■ Compatible 5380 Pin-out ■ CMOS ■ Asynchronous I/F Supports 1.5 Mbytes ■ 48 mA Drivers ■ Arbitration Support ■ Support Normal or Block Mode DMA 																																
PACKAGE	40-Pin DIP 44-Pin PLCC	40-Pin DIP 44-Pin PLCC	40-Pin DIP 44-Pin PLCC	40-Pin DIP 44-Pin PLCC																																
SUPPORT PRODUCTS	Support Documentation Provided with Device	Z89C000ZEM - Emulator	Z8937100ZEM - Emulator	Support Documentation Provided with Device																																

