BLOCK DIAGRAM	16/8K ROM 4K CHAR ROM Z8 CPU | RAM OSD 13 PWM | TIMER WDT | 5 PORTS	6K ROM 3K CHAR ROM Z8 CPU | RAM OSD 7 PWM | TIMER WDT | 3 PORTS	CHAR ROM COMMAND INTERPRETER ANALOG SYNC/DATA SLICER | OSD CTRL	1K/6K ROM Z8 CPU WDT | 124 RAM P2 | P3	2K/8K/16K ROM Z8 CPU WDT | 128,256, 768 RAM P0 | P1 | P2 | P3
PART NUMBER	**Z86C27/127/97/47/E47**	**Z86227**	**Z86128/Z86228/Z86129**	**Z86L06/Z86L29**	**Z86L70/71/72/73/74 75/76/77/78**
DESCRIPTION	Digital Television Controller (DTC™) Television, VCRs, and Cable Z86E47 = OTP Version	Standard DTC™ Features with Reduced ROM, RAM, PWM Outputs for Greater Economy	Z86128/228 = Line 21 Closed Caption Controller (L21C™) Z86129/228 = Line 21 Closed Caption and EDS Controller	Z86L06 = Low-Voltage CMOS Consumer Controller Processor Z86L29 = 6K Infrared Remote Controller	Zilog Infrared Remote Controllers (ZIRC™) for IR Remote/Battery Operated Applications Ranging in ROM: L70=2K, L71=8K,L72&78=16K,L73&74=32K, L75=4K,L76=12K,L77=24K
PROCESS/SPEED	CMOS: 4 MHz	CMOS: 4 MHz	CMOS: 12 MHz	Low-Voltage CMOS: 8 MHz	Low-Voltage CMOS: 8 MHz
FEATURES	■ 8K/16K/OTP ROM ■ 256 Byte RAM ■ 160x7-Bit Video RAM ■ On-Screen Display (OSD) Video Controller ■ Programmable – Color – Size – Position Attributes ■ 13 PWMs for D/A Conversion ■ 128-Character Set ■ 4Kx6-Bit Char. Gen. ROM ■ Watch-Dog Timer (WDT) ■ Low-Voltage Protection ■ Five Ports/36 Pins ■ Two Standby Modes ■ Low-EMI Mode	■ 6K ROM, 256 Byte RAM ■ 120x7-Bit Video RAM ■ OSD On-Board Programmable – Color – Size – Position Attributes ■ 7 PWMs ■ 96 Character Set ■ 3Kx6-Bit Char. Gen. ROM ■ Watch-Dog Timer (WDT) ■ Low-Voltage Protection ■ Three Ports/20 Pins ■ Two Standby Modes ■ Low-EMI Mode	■ Conforms to FCC Line 21 Format ■ Parallel or Serial Modes ■ Stand-Alone Operation ■ On-Board Data Sync and Slicer ■ On-Board Character Generator – Color – Blinking – Italic – Underline – Extended Data Services	■ 1K ROM and 6K ROM ■ Watch-Dog Timer (WDT) ■ Two Analog Comparators with Output Option ■ Two Standby Modes ■ Two Counter/Timers ■ Auto Power-On Reset ■ 2V Operation ■ RC Oscillator Option ■ Low-Noise Option ■ Low-Voltage Protection ■ High-Current Drivers (2, 4)	■ Watch-Dog Timer (WDT) ■ Two Analog Comparators with Output Option ■ Two Standby Modes ■ Two Enhanced Counter/Timers – Auto Pulse – Reception/Generation ■ Auto Power-On Reset ■ 2V Operation ■ RC Oscillator Option ■ Low-Voltage Protection ■ High-Current Drivers – Three OTP Versions Available – Z86E72/73/74
PACKAGE	64-Pin DIP	40-Pin DIP	18-Pin DIP	18-Pin DIP 18-Pin SOIC	Z86L71=20-Pin DIP/SOIC Z86L70/L75=18-Pin DIP, SOIC Z86L72/L76/L77=40,44-Pin DIP, PLCC, QFP Z86L74=64/68-Pin
SUPPORT PRODUCTS	Z86C2700ZCO - Evaluation Board Z86C2700ZDB - Emulator Z86C2700ZEM - Emulator	Z86C2700ZDB - Emulator Z86C2702ZEM - Emulator Z86C2700ZCO - Evaluation Board	Support Documentation Provided with the device	Z86C5000ZEM - Emulator	Z86L7200TSC - Emulator Z86L7100ZEM - Emulator Z86L7100ZDB - Emulator