

BLOCK DIAGRAM	16/8K ROM 4K CHAR ROM Z8 CPU RAM OSD 13 TIMER PWM WDT PORTS	6K ROM 3K CHAR ROM Z8 CPU RAM OSD 7 TIMER PWM WDT 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	Z86C27/127/57/47/47	Z86C27	Z86128/Z86228/Z86129	Z86106/Z86129	Z86170/172/73/74 75/76/77/78
DESCRIPTION	Digital Television Controller (DTC™) Television, VCRs, and Cable Z86C47 - 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 ■ 16x7-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	Z86171=20-Pin DIP/SOIC Z86170/L75=18-Pin DIP, SOIC Z86172/L76/L77=40, 44-Pin DIP, PLCC, QFP Z86174=64/68-Pin
SUPPORT PRODUCTS	Z86C2700ZCO - Evaluation Board Z86C2700ZDB - Emulator Z86C2700ZEM - Emulator	Z86C2700ZDB - Emulator Z86C2700ZEM - Emulator Z86C2700ZCO - Evaluation Board	Support Documentation Provided with the device	Z86C5000ZEM - Emulator	Z86L7200TSC - Emulator Z86L7100ZEM - Emulator Z86L7100ZDB - Emulator