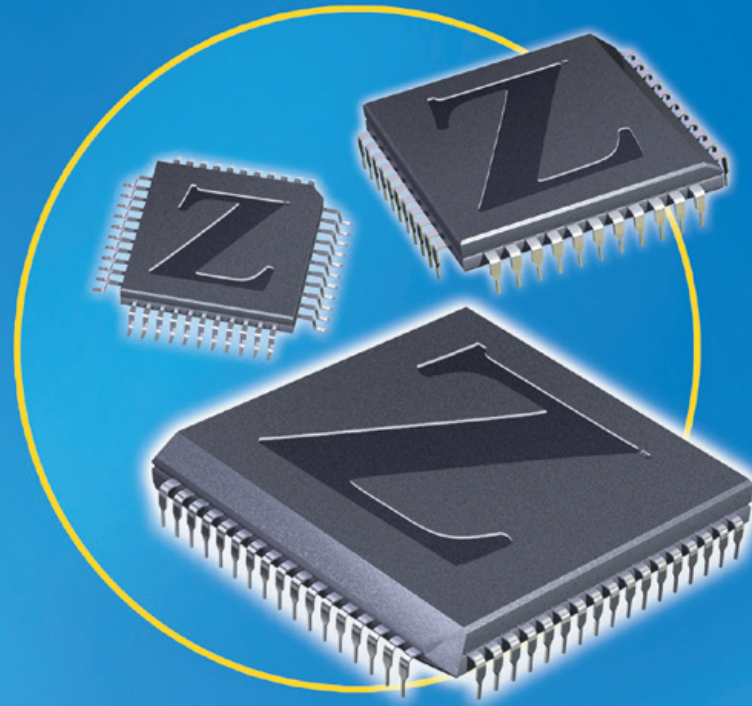


2006 **PRODUCT LINE CARD**



Z8  GP™

Z8  Encore!®

eZ80  Acclaim!®



Crimzon™

Z8  Encore!XP®

Z8  Encore!MC™

EMBEDDED IN LIFE!

ZiLOG PRODUCT LINE CARD



eZ80Acclaim!® Flash Microcontrollers and Microprocessors

| Device | Pin Count | Package | Flash (KB) | External Memory | SRAM (KB) | Speed (MHz) | I/O Lines | Interrupts | 16-bit Timers | WDT | PWMs | EMAC | DMA Controller | Other Features | IrDA | POR/VBO | Operating Voltage | Temp Range | Development Tools |
|--|-----------|-------------|-------------------------|-----------------|----------------------|-------------|-----------|------------|---------------|-----|------|------|----------------|--|------|---------|-------------------|------------|--|
| eZ80F91 | 144 | LQFP, BGA | 256 | 16 MB | 16 | 50 | 32 | 48 | 4 | ✓ | 4 | ✓ | ✓ | 2 UARTs, SPI, I ² C, PLL, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F910100KIT eZ80F910200ZCO eZ80F910SSLKIT eZ80F911SSLKIT |
| eZ80F91 Enet Module EZ80F915050MODG | 120 | 2.5x3.1 PCB | 256 (Int) 1024 (Ext) | 16 MB | 16 (Int) 512(Ext) | 50 | 32 | 48 | 4 | ✓ | 4 | ✓ | ✓ | 2 UARTs, SPI, I ² C, PLL, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F910200ZCO |
| eZ80F91 Mini Module eZ80F915005MODG | 112 | 1.9x2.0 PCB | 256 | 16 MB | 16 (Int) 128(Ext) | 50 | 32 | 48 | 4 | ✓ | 4 | ✓ | ✓ | 2 UARTs, SPI, I ² C, PLL, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F910100KIT eZ80F910SSLKIT |
| eZ80F92 | 100 | LQFP | 128 | 16 MB | 8 | 20 | 24 | 38 | 6 | ✓ | - | - | - | 2 UARTs, SPI, I ² C, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F920200ZCO |
| eZ80F92 Enet Module EZ80F92012MOD | 100 | 2.5x3.1 PCB | 128 (Int) 1024 (Ext) | 16 MB | 8 (Int) 512(Ext) | 20 | 24 | 38 | 6 | ✓ | - | - | - | 2 UARTs, SPI, I ² C, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F920200ZCO |
| eZ80F92 Flash Module EZ80F920020MOD | 100 | 2.5x3.1 PCB | 128 | 16 MB | 8 (Int) 512(Ext) | 20 | 24 | 38 | 6 | ✓ | - | - | - | 2 UARTs, SPI, I ² C, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F920200ZCO |
| eZ80F93 | 100 | LQFP | 64 | 16 MB | 4 | 20 | 24 | 38 | 6 | ✓ | - | - | - | 2 UARTs, SPI, I ² C, RTC | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80F920200ZCO eZ80F910SSLKIT |
| eZ80L92 | 100 | LQFP | - | 16 MB | - | 50, 20 | 24 | 37 | 6 | ✓ | - | - | - | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | eZ80L920210ZCO |
| eZ80L92 Enet Module EZ80L925048MOD | 100 | 2.5x2.5 PCB | 1024 | 16 MB | 512 | 48 | 24 | 37 | 6 | ✓ | - | ✓ | - | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | 0 to 70 | eZ80L920210ZCO |
| eZ80190 | 100 | LQFP | - | 16 MB | 9 | 50 | 32 | 45 | 6 | ✓ | - | - | ✓ | 2 UARTs, SPI, I ² C, MACC | - | - | 3.0-3.6V | -40 to 105 | eZ801900200ZCO |

For complete eZ80Acclaim! software solutions, visit www.zilog.com/products/software.

Z8 Encore!® Flash Microcontrollers

(for ROM versions, please contact ZiLOG Sales or Distribution Representatives)

| Device | Pin Count | Package | Flash (KB) | NVDS(B) | SRAM (KB) | Speed (MHz) | I/O Lines | Interrupts | 16-bit Timers | WDT | PWMs | 10-bit A/D Channels | DMA Controller | Other Features | IrDA | POR/VBO | Operating Voltage | Temp Range | Development Tools |
|-------------------|-----------|------------------|------------|---------|-----------|-------------|-----------|------------|---------------|-----|------|---------------------|----------------|--------------------------------|------|---------|-------------------|------------|---|
| 64K Series | | | | | | | | | | | | | | | | | | | |
| Z8F6423 | 80 | QFP | 64 | - | 4 | 20 | 60 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F6422 | 68, 64 | PLCC, LQFP | 64 | - | 4 | 20 | 46 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F6421 | 44, 40 | PLCC, LQFP, PDIP | 64 | - | 4 | 20 | 31, 29 | 23 | 3 | ✓ | 3 | 8 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F4823 | 80 | QFP | 48 | - | 4 | 20 | 60 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |

| | | | | | | | | | | | | | | | | | | | |
|------------------|--------|---------------------|----|---|---|----|--------|----|---|---|---|----|---|--------------------------------|---|---|----------|------------|---|
| Z8F4822 | 68, 64 | PLCC, LQFP | 48 | - | 4 | 20 | 46 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F4821 | 44, 40 | PLCC, LQFP, PDIP | 48 | - | 4 | 20 | 31, 29 | 23 | 3 | ✓ | 3 | 8 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F3222 | 68, 64 | PLCC, LQFP | 32 | - | 2 | 20 | 46 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F3221 | 44, 40 | PLCC, LQFP, PDIP | 32 | - | 2 | 20 | 31, 29 | 23 | 3 | ✓ | 3 | 8 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F2422 | 68, 64 | PLCC, LQFP | 24 | - | 2 | 20 | 46 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F2421 | 44, 40 | PLCC, LQFP, PDIP | 24 | - | 2 | 20 | 31, 29 | 23 | 3 | ✓ | 3 | 8 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F1622 | 68, 64 | PLCC, LQFP | 16 | - | 2 | 20 | 46 | 24 | 4 | ✓ | 4 | 12 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F1621 | 44, 40 | PLCC, LQFP, PDIP | 16 | - | 2 | 20 | 31, 29 | 23 | 3 | ✓ | 3 | 8 | ✓ | 2 UARTs, SPI, I ² C | ✓ | ✓ | 3.0-3.6V | -40 to 105 | Z8F64200100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| 8K Series | | | | | | | | | | | | | | | | | | | |
| Z8F0822 | 28 | SOIC, PDIP | 8 | - | 1 | 20 | 19 | 19 | 2 | ✓ | 2 | 5 | - | UART, SPI, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0821 | 20 | SSOP, PDIP | 8 | - | 1 | 20 | 11 | 16 | 2 | ✓ | 2 | 2 | - | UART, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0812 | 28 | SOIC, PDIP | 8 | - | 1 | 20 | 19 | 19 | 2 | ✓ | 2 | - | - | UART, SPI, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0811 | 20 | SSOP, PDIP | 8 | - | 1 | 20 | 11 | 16 | 2 | ✓ | 2 | - | - | UART, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0422 | 28 | SOIC, PDIP | 4 | - | 1 | 20 | 19 | 19 | 2 | ✓ | 2 | 5 | - | UART, SPI, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0421 | 20 | SSOP, PDIP | 4 | - | 1 | 20 | 11 | 16 | 2 | ✓ | 2 | 2 | - | UART, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0412 | 28 | SOIC, PDIP | 4 | - | 1 | 20 | 19 | 19 | 2 | ✓ | 2 | - | - | UART, SPI, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |
| Z8F0411 | 20 | SSOP, PDIP | 4 | - | 1 | 20 | 11 | 16 | 2 | ✓ | 2 | - | - | UART, I ² C | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8F08200100KIT ZUSBC00100ZAC ZSBOPTSC01ZAC |

ZiLOG's General Purpose Modular Development System (ZGENPRP0100MDS) provides a convenient and powerful peripheral platform for use with Z8 Encore![®], Z8 Encore! XP[®] and eZ80Acclaim![®] MDS-compatible development kits. Please contact your local ZiLOG sales office or visit www.zilog.com for more information.

ZiLOG PRODUCT LINE CARD



| Device | Pin Count | Package | Flash (KB) | NVDS(B) | SRAM (KB) | Speed (MHz) | I/O Lines | Interrupts | 16-bit Timers | WDT | PWMs | 10-bit A/D Channels | DMA Controller | Other Features | IrDA | POR/VBO | Operating Voltage | Temp Range | Development Tools |
|---------------------------------------|-----------|-----------------------|------------|---------|-----------|-------------|-----------|------------|---------------|-----|------|---------------------|----------------|--|------|---------|-------------------|------------|---|
| Z8 Encore! XP® F0830 Series | | | | | | | | | | | | | | | | | | | |
| Z8F1232 | 28, 20 | SOIC, QFN PDIP | 12 | 0 | 0.256 | 20 | 23, 17 | 18 | 2 | ✓ | 2 | 8, 7 | - | Fast ADC, 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F1233 | 28, 20 | SOIC, QFN PDIP | 12 | 0 | 0.256 | 20 | 25, 17 | 18 | 2 | ✓ | 2 | - | - | 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0830 | 28, 20 | SOIC, QFN PDIP | 8 | 64 | 0.256 | 20 | 23, 17 | 18 | 2 | ✓ | 2 | 8, 7 | - | Fast ADC, 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0831 | 28, 20 | SOIC, QFN PDIP | 8 | 64 | 0.256 | 20 | 25, 17 | 18 | 2 | ✓ | 2 | - | - | 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0430 | 28, 20 | SOIC, QFN PDIP | 4 | 64 | 0.256 | 20 | 23, 17 | 18 | 2 | ✓ | 2 | 8, 7 | - | Fast ADC, 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0431 | 28, 20 | SOIC, QFN PDIP | 4 | 64 | 0.256 | 20 | 25, 17 | 18 | 2 | ✓ | 2 | - | - | 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0230 | 28, 20 | SOIC, QFN PDIP | 2 | 64 | 0.256 | 20 | 23, 17 | 18 | 2 | ✓ | 2 | 8, 7 | - | Fast ADC, 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0231 | 28, 20 | SOIC, QFN PDIP | 2 | 64 | 0.256 | 20 | 25, 17 | 18 | 2 | ✓ | 2 | - | - | 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0130 | 28, 20 | SOIC, QFN PDIP | 1 | 64 | 0.256 | 20 | 23, 17 | 18 | 2 | ✓ | 2 | 8, 7 | - | Fast ADC, 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0131 | 28, 20 | SOIC, QFN PDIP | 1 | 64 | 0.256 | 20 | 25, 17 | 18 | 2 | ✓ | 2 | - | - | 1 Comp.Int. Prec. Oscillator | - | ✓ | 2.7-3.6V | -40 to 105 | ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8 Encore!® 823 and 423 Series | | | | | | | | | | | | | | | | | | | |
| Z8F0823 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 8 | 0 | 1 | 5 | 22, 16, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp. Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0813 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 8 | 0 | 1 | 5 | 24, 16, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp. Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0423 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 4 | 0 | 1 | 5 | 22, 16, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp. Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0413 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 4 | 0 | 1 | 5 | 24, 16, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp. Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0223 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 2 | 0 | 0.5 | 5 | 22, 16, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp. Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |

| | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------|-----------------------|---|-----|------|----|-----------|----|---|---|---|---------|---|---|---|---|----------|------------|---|
| Z8F0213 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 2 | 0 | 0.5 | 5 | 24, 16, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0123 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 1 | 0 | 0.25 | 5 | 22, 16, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F0113 | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 1 | 0 | 0.25 | 5 | 24, 16, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8 Encore! XP® 8xA Series | | | | | | | | | | | | | | | | | | | |
| Z8F082A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 8 | 0 | 1 | 20 | 23, 17, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp, Temp. Sensor, Int. Prec. Oscillator, Op Amp | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F081A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 8 | 0 | 1 | 20 | 25, 17, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8 Encore! XP® 4K Series | | | | | | | | | | | | | | | | | | | |
| Z8F042A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 4 | 128 | 1 | 20 | 23, 17, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp, Temp. Sensor, Int. Prec. Oscillator, Op Amp | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F041A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 4 | 128 | 1 | 20 | 25, 17, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F022A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 2 | 64 | 0.5 | 20 | 23, 17, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp, Temp. Sensor, Int. Prec. Oscillator, Op Amp | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F021A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 2 | 64 | 0.5 | 20 | 25, 17, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F012A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 1 | 16 | 0.25 | 20 | 23, 17, 6 | 18 | 2 | ✓ | 2 | 8, 7, 4 | - | UART, 1 Comp, Temp. Sensor, Int. Prec. Oscillator, Op Amp | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |
| Z8F011A | 28, 20, 8 | SOIC, SSOP, PDIP, QFN | 1 | 16 | 0.25 | 20 | 25, 17, 6 | 17 | 2 | ✓ | 2 | - | - | UART, 1 Comp, Int. Prec. Oscillator | ✓ | ✓ | 2.7-3.6V | -40 to 125 | Z8F04A28100KIT Z8F04A08100KIT ZUSBC00100ZAC ZUSBOPTSC01ZAC |

ZiLOG's General Purpose Modular Development System (ZGENPRP0100MDS) provides a convenient and powerful peripheral platform for use with Z8 Encore!®, Z8 Encore! XP® and eZ80Acclaim!® MDS-compatible development kits. Please contact your local ZiLOG sales office or visit www.zilog.com for more information.

ZiLOG PRODUCT LINE CARD



| Device | Pin Count | Package | Flash (KB) | NVDS(B) | SRAM (KB) | Speed (MHz) | I/O Lines | Interrupts | 16-bit Timers | WDT | PWMs | 10-bit A/D Channels | DMA Controller | Other Features | IrDA | POR/VBO | Operating Voltage | Temp Range | Development Tools |
|------------------------------------|-----------|---------|------------|---------|-----------|-------------|-----------|------------|---------------|-----|------|---------------------|----------------|--|------|---------|-------------------|------------|----------------------------------|
| Z8 Encore! MC™ 16100 Series | | | | | | | | | | | | | | | | | | | |
| FMC16100 | 32 | QFN QFP | 16 | 0 | 512 | 20 | 17 | 18 | 1 | ✓ | 6 | 8 | - | UART/SPI/I2C, 1 Comp, Op-AMP, 12-bit PWM Modules, Int. Prec. Oscillator, 2.5uS ADC | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8FMC160100KIT ZUSBOPTSC01ZAC |
| FMC08100 | 32 | QFN QFP | 8 | 0 | 512 | 20 | 17 | 18 | 1 | ✓ | 6 | 8 | - | UART/SPI/I2C, 1 Comp, Op-AMP, 12-bit PWM Modules, Int. Prec. Oscillator, 2.5uS ADC | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8FMC160100KIT ZUSBOPTSC01ZAC |
| FMC04100 | 32 | QFN QFP | 4 | 0 | 512 | 20 | 17 | 18 | 1 | ✓ | 6 | 8 | - | UART/SPI/I2C, 1 Comp, Op-AMP, 12-bit PWM Modules, Int. Prec. Oscillator, 2.5uS ADC | ✓ | ✓ | 2.7-3.6V | -40 to 105 | Z8FMC160100KIT ZUSBOPTSC01ZAC |

| Z8® OTP Microcontrollers | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-----------|-----------------|----------|-------------|-------------|-----------|------------|--------------|-----|---------------------------|------------------|-----------|-----|-------------------|------------|---|--|--|--|
| Device | Pin Count | Package | OTP (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit Timers | WDT | Other Features | Comm. Interfaces | Low Noise | POR | Operating Voltage | Temp Range | Development Tools | | | |
| Z86733 | 28 | DIP, SOIC, PLCC | 8 | 237 | 12, 16 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP01ZEM | | | |
| Z86743 | 40, 44 | DIP, PLCC, QFP | 8 | 236 | 12 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP01ZEM | | | |
| Z86E02 | 18 | DIP, SOIC, SSOP | 0.5 | 61 | 8 | 14 | 5 | 1 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 4.5-5.5V | -40 to 105 | Z86CCP01ZEM | | | |
| Z86E03 | 18 | DIP, SOIC | 0.5 | 61 | 8, 12 | 14 | 6 | 1 | ✓ | 2 Comparators | - | ✓ | ✓ | 4.5-5.5V | 0 to 70 | Z86CCP01ZEM | | | |
| Z86E04 | 18 | DIP, SOIC, SSOP | 1 | 125 | 8, 12 | 14 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 4.5-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C1200ZEM | | | |
| Z86E08 | 18 | DIP, SOIC, SSOP | 2 | 125 | 12 | 14 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 4.5-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C1200ZEM | | | |
| Z86E15 | 40 | DIP | 4 | 188 | 5 | 32 | 5 | 1 | ✓ | 4 LED Ports | - | ✓ | ✓ | 4.5-5.5V | 0 to 70 | Z86K1500ZEM | | | |
| Z86E21 | 40, 44 | DIP, PLCC, QFP | 8 | 236 | 12, 16 | 32 | 6 | 2 | ✓ | - | UART | ✓ | - | 4.5-5.5V | 0 to 70 | Z86C1200ZEM | | | |
| Z86E30 | 28 | DIP, PLCC, SOIC | 4 | 237 | 16 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86CCP01ZEM, Z86C3000ZAC | | | |
| Z86E31 | 28 | DIP, PLCC, SOIC | 2 | 125 | 8, 16 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86CCP01ZEM, Z86C3000ZAC | | | |
| Z86E33 | 28 | DIP, PLCC, SOIC | 4 | 237 | 12 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86E3400ZDP/S/V, Z86CCP01ZEM, Z86C3000ZAC | | | |

| | | | | | | | | | | | | | | | | |
|--------|--------|-----------------|----|-----|--------|----|---|---|---|--------------------|------|---|---|----------|------------|---|
| Z86E34 | 28 | DIP, PLCC, SOIC | 16 | 237 | 12, 16 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86E3400ZDP/S/V, Z86CCP01ZEM, Z86C3000ZAC |
| Z86E40 | 40, 44 | DIP, PLCC, QFP | 4 | 236 | 16 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86CCP01ZEM |
| Z86E43 | 40, 44 | DIP, PLCC, QFP | 4 | 236 | 12 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86E4400ZDP/S/V, Z86CCP01ZEM, Z86C3000ZAC |
| Z86E44 | 40, 44 | DIP, PLCC, QFP | 16 | 236 | 12 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.5-5.5V | -40 to 105 | Z86CCP00ZAC, Z86E4400ZDP/S/V, Z86CCP01ZEM, Z86C3000ZAC |
| Z86E61 | 40, 44 | DIP, PLCC, QFP | 16 | 236 | 16 | 32 | 6 | 2 | - | - | UART | - | - | 4.5-5.5V | 0 to 70 | Z86C1200ZEM |
| Z86E63 | 40, 44 | DIP, PLCC, QFP | 16 | 236 | 16 | 32 | 6 | 2 | - | - | UART | - | - | 4.5-5.5V | 0 to 70 | Z86C1200ZEM |
| Z86E83 | 28 | DIP, PLCC, SOIC | 4 | 237 | 16 | 21 | 6 | 2 | - | 2 Comparators/ ADC | - | ✓ | ✓ | 3.5-5.5V | 0 to 70 | Z86C8401ZEM |

Z8® Low Voltage Microcontrollers

| Device | Pin Count | Package | ROM (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit Timers | WDT | Other Features | Comm. Interfaces | Low Noise | POR | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|-----------------|----------|-------------|-------------|-----------|------------|--------------|-----|---------------------------|------------------|-----------|-----|-------------------|------------|---|
| Z86L02 | 18 | DIP, SOIC | 0.5 | 61 | 8 | 14 | 5 | 1 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 2.0-3.9V | 0 to 70 | Z86CCP01ZEM, Z86C1200ZEM |
| Z86L04 | 18, 20 | DIP, SOIC, SSOP | 1 | 125 | 8 | 14 | 5 | 2 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 2.0-3.9V | 0 to 70 | Z86CCP01ZEM, Z86C1200ZEM |
| Z86L06 | 18 | DIP, SOIC | 1 | 124 | 8 | 14 | 5 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86CCP01ZEM |
| Z86L08 | 18 | DIP, SOIC | 2 | 125 | 8 | 14 | 5 | 2 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 2.0-3.9V | 0 to 70 | Z86CCP01ZEM, Z86C1200ZEM |
| Z86L16 | 18 | DIP, SOIC | 1 | 124 | 8 | 14 | 5 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86CCP01ZEM |
| Z86L43 | 40, 44 | DIP, QFP | 4 | 236 | 8 | 32 | 5 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-4.5V | 0 to 70 | Z86CCP00ZAC, Z86CCP01ZEM |
| Z87L16 | 18 | SOIC | 1 | 124 | 8 | 12 | 5 | 2 | ✓ | 1 Comparator, LV Protect | PN Modulator | ✓ | ✓ | 2.4-4.6V | 0 to 70 | Z8611600ZEM |
| Z87L33 | 28 | SOIC | 4 | 237 | 4 | 24 | 5 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.7-4.5V | 0 to 70 | Z86CCP01ZEM, Z86CCP00ZAC, Z86C3000ZAC |

ZiLOG PRODUCT LINE CARD



Z8® ROM Microcontrollers

| Device | Pin Count | Package | ROM (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit Timers | WDT | Other Features | Comm. Interfaces | Low Noise | POR | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|-----------------|----------|-------------|-------------|-----------|------------|--------------|-----|---------------------------|------------------|-----------|-----|-------------------|------------|---------------------------------------|
| Z86233 | 28 | DIP, PLCC, SOIC | 8 | 237 | 16 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP00ZAC, Z86CCP01ZEM, Z86C3000ZAC |
| Z86243 | 40, 44 | DIP, PLCC, QFP | 8 | 236 | 16 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP00ZAC, Z86CCP01ZEM, Z86C3000ZAC |
| Z86C02 | 18 | DIP, SOIC | 0.5 | 61 | 8 | 14 | 5 | 1 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C1200ZEM |
| Z86C03 | 18 | DIP, SOIC | 0.5 | 60 | 8 | 14 | 6 | 1 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM |
| Z86C04 | 18 | DIP, SOIC | 1 | 125 | 12 | 14 | 6 | 2 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C1200ZEM |
| Z86C08 | 18 | DIP, SOIC | 2 | 125 | 12 | 14 | 6 | 2 | ✓ | 2 Comparators, LV Protect | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C1200ZEM |
| Z86C11 | 40, 44 | DIP, QFP | 4 | 236 | 12 | 32 | 6 | 2 | - | - | UART | ✓ | - | 4.5-5.5V | 0 to 70 | Z86C1200ZEM |
| Z86C21 | 40, 44 | DIP, PLCC | 8 | 236 | 12, 16 | 32 | 6 | 2 | - | - | UART | ✓ | - | 4.5-5.5V | 0 to 70 | Z86C1200ZEM |
| Z86C28 | 18 | DIP, SOIC | 4 | 237 | 12 | 14 | 6 | 2 | ✓ | 2 Comparators, LV Protect | - | - | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM |
| Z86C30 | 28 | DIP, SOIC | 4 | 237 | 12 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C3000ZAC |
| Z86C31 | 28 | DIP, SOIC | 2 | 125 | 12 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C3000ZAC |
| Z86C32 | 28 | SOIC | 2 | 237 | 8 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C3000ZAC, Z86CCP00ZAC |
| Z86C33 | 28 | DIP, SOIC | 4 | 237 | 12, 16 | 24 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86C3000ZAC, Z86CCP00ZAC |
| Z86C34 | 28 | DIP, SOIC | 16 | 237 | 16 | 24 | 6 | 2 | ✓ | 2 Comparators | UART | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86C3600ZEM |
| Z86C36 | 28 | DIP, SOIC | 64 | 237 | 16 | 24 | 6 | 2 | ✓ | 2 Comparators | UART | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86C3600ZEM |
| Z86C40 | 40, 44 | DIP, PLCC | 4 | 236 | 12 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM |
| Z86C43 | 40, 44 | DIP, PLCC, QFP | 4 | 236 | 12, 16 | 32 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86CCP00ZAC |
| Z86C44 | 40, 44 | DIP, QFP | 16 | 236 | 16 | 32 | 6 | 2 | ✓ | 2 Comparators | UART | ✓ | ✓ | 3.0-5.5V | -40 to 105 | Z86CCP01ZEM, Z86CCP00ZAC |
| Z86C61 | 40, 44 | DIP, PLCC, QFP | 16 | 256 | 16 | 32 | 6 | 2 | - | - | UART | - | - | 3.0-5.5V | 0 to 70 | Z86C1200ZEM |
| Z86C62 | 64 | DIP | 16 | 256 | 16 | 52 | 6 | 2 | - | - | UART | - | - | 3.0-5.5V | 0 to 70 | Z86C6200ZEM |
| Z86C63 | 40, 44 | DIP, PLCC, QFP | 32 | 256 | 16 | 32 | 6 | 2 | - | - | UART | - | - | 3.0-5.5V | -40 to 105 | Z86C1200ZEM |
| Z86C65 | 64 | DIP | 32 | 237 | 16 | 22 | 3 | 2 | - | - | - | ✓ | - | 3.0-5.5V | 0 to 70 | Z86C1200ZEM |
| Z86C83 | 28 | DIP, SOIC | 4 | 237 | 16 | 21 | 6 | 2 | ✓ | 2 Comparators/ ADC | - | - | ✓ | 3.0-5.5V | -40 to 105 | Z86C8401ZEM |
| Z86K15 | 40, 44 | DIP | 4 | 188 | 5 | 32 | 5 | 1 | ✓ | 4 LED Ports | - | ✓ | - | 4.5-5.5V | 0 to 70 | Z86K1500ZEM |

Z8® ROMless Microcontrollers

| Device | Pin Count | Package | ROM (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit Timers | WDT | Other Features | Comm. Interfaces | Low Noise | POR | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|----------------|----------|-------------|-------------|-----------|------------|--------------|-----|----------------|------------------|-----------|-----|-------------------|------------|--------------------------|
| Z86C90 | 40, 44 | DIP, PLCC, QFP | ROMless | 236 | 12, 16 | 32 | 6 | 2 | ✓ | 2 Comparators | - | - | ✓ | 3.0-5.5V | -40 to 105 | Z86C5000ZEM |
| Z86C91 | 40, 44 | DIP, PLCC, QFP | ROMless | 236 | 16 | 32 | 6 | 2 | - | - | UART | - | - | 4.5-5.5V | -40 to 105 | Z86C1200ZEM, Z86C9300ZEM |
| Z86C93 | 40, 44 | DIP, PLCC, QFP | ROMless | 236 | 20, 33 | 24 | 6 | 3 | - | MUL/DIV | UART | - | - | 3.3-5.5V | 0 to 70 | Z86C1200ZEM, Z86C9300ZEM |
| Z86C96 | 64, 68 | DIP, PLCC | ROMless | 236 | 20 | 52 | 6 | 2 | - | - | UART | - | - | 3.0-5.5V | 0 to 70 | Z86C6200ZEM |

Z180 Microprocessors

| Device | Pin Count | Package | Core CPU | RAM (KB) | Speed (MHz) | I/O Lines | Interrupts | Timers | WDT | Other Features | Comm. Interfaces | Operating Voltage | Temp Range | Development Tools |
|---------------|------------|-----------------|----------|----------|-------------|-----------|------------|-----------------------|-----|---|-----------------------|-------------------|------------|--------------------------|
| Z80180 | 68, 80, 64 | PLCC, QFP, PDIP | Z180 | - | 6, 8, 10 | - | - | (2) 16-bit | - | 1MB MMU, 2 DMAs, HW multiply for signal processing apps, embedded Internet SW suite | CSIO, 2 UARTs | 5.0V | -40 to 105 | Z8S18000ZCO, Z8S18000ZEM |
| Z8S180/Z8L180 | 68, 80, 64 | PLCC, QFP, PDIP | Z180 | - | 10, 20, 33 | - | - | (2) 16-bit | - | 1MB MMU, 2 DMAs, HW multiply for signal processing apps, embedded Internet SW suite | CSIO, 2 UARTs | 5.0V (3.3V) | -40 to 105 | Z8S18000ZCO, Z8S18000ZEM |
| Z80181 | 100 | QFP | Z180 | - | 10 | 16 | - | (2) 8-bit, (2) 16-bit | - | Z180 Megacell, SCC, HW multiply for signal processing apps, embedded Internet SW suite | 2 UARTs, 1 SCC, CSIO | 5.0V | -40 to 105 | Z8018100ZCO |
| Z80182/Z8L182 | 100 | QFP, LQFP | S180 | - | 16, 20, 33 | 24 | - | (2) 16-bit | - | S180 Megacell, 2 ESCC ch, 16550 MIMIC, HW multiply for signal processing apps, embedded Internet SW suite | 2 UARTs, 2 SCCs, CSIO | 5.0V (3.3V) | -40 to 105 | Z8018200ZCO |

ZiLOG PRODUCT LINE CARD



Z8 GP™ Microcontrollers

| Device | | Pin Count | Package | ROM (KB) | OTP (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit/16-bit Timers | WDT | Other Features | Comm. Interfaces | LV Detect | POR | Operating Voltage | Temp Range | Development Tools |
|---------|----|----------------|-----------------|----------|----------|-------------|-------------|-----------|------------|-----------------------|-----|--------------------|------------------|-----------|-----|-------------------|---------------------------------------|-------------------|
| Z P323L | 2 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 32 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323L | 6 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 16 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323L | 8 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 8 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323L | 4 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 4 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323H | 32 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 32 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-5.5V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323H | 16 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 16 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-5.5V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323H | 08 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 8 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-5.5V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z P323H | 04 | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 4 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-5.5V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z R323L | 2 | 20,28, 48 | DIP, SOIC, SSOP | 32 | - | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z R323L | 4 | 20,28, 48 | DIP, SOIC, SSOP | 24 | - | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z R323L | 6 | 48 | SSOP | 16 | - | 237 | 8 | 32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |
| Z R323L | 8 | 48 | SSOP | 8 | - | 237 | 8 | 32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to 105 Z -40 to 125 | P323ICE02ZEM |

| | | | | | | | | | | | | | | | | |
|---------------|-------|--------------------|----|---|-----|---|-------|---|--------------------------|---|--------------------|---|---|---|----------|--|
| ZGR323Lxxxx04 | 48 | SSOP | 4 | - | 237 | 8 | 32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to +105 ZGP323ICE02ZEM -40 to +125 |
| ZGR163Lxxxx16 | 20,28 | DIP, SOIC, SSOP | 16 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to +105 ZGP323ICE02ZEM -40 to +125 |
| ZGR163Lxxxx08 | 20,28 | DIP, SOIC, SSOP | 8 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to +105 ZGP323ICE02ZEM -40 to +125 |
| ZGR163Lxxxx04 | 20,28 | DIP, SOIC, SSOP | 4 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to +105 ZGP323ICE02ZEM -40 to +125 |
| ZGR163Lxxxx02 | 20,28 | DIP, SOIC, SSOP | 2 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to +105 ZGP323ICE02ZEM -40 to +125 |
| ZGR163Lxxxx01 | 20,28 | DIP, SOIC, SSOP | 1 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 -40 to +105 ZGP323ICE02ZEM -40 to +125 |

Z80® Microprocessors

| Device | Pin Count | Package | Core CPU | RAM (KB) | Speed (MHz) | I/O Lines | Interrupts | Timers | WDT | Other Features | Comm. Interfaces | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|----------------|----------|----------|--------------|----------------|------------|--------|-----|---|------------------|-------------------|------------|---|
| Z84C00 | 40, 44 | DIP, QFP, PLCC | Z80 | - | 6, 8, 10, 20 | - | - | - | - | - | - | 5.0V | -40 to 105 | Contact ZILOG or visit www.zilog.com |
| Z84C15 | 100 | QFP, LQFP | Z80 | - | 6, 10, 16 | 16 | - | 4 | ✓ | 3 Z80 Peripherals (SIO, PIO, CTC), WDT, CGC | SIO | 5.0V | -40 to 105 | Contact ZILOG or visit www.zilog.com |
| Z84C20 | 40, 44 | DIP, QFP, PLCC | Z80 | - | 6, 8, 10 | 16 | - | - | - | Two 8-bit Ports | - | 5.0V | -40 to 105 | Contact ZILOG or visit www.zilog.com |
| Z84C30 | 40, 44 | DIP, QFP, PLCC | Z80 | - | 6, 8, 10 | - | - | 4 | - | Four 8-bit CTC, Selectable Trigger | - | 5.0V | -40 to 105 | Contact ZILOG or visit www.zilog.com |
| Z84C4X | 40, 44 | DIP, QFP, PLCC | Z80 | - | 6, 8, 10 | - | - | - | - | SIO | SIO | 5.0V | -40 to 105 | Z84C9000ZCO |
| Z84C90 | 84, 100 | LQFP, PLCC | Z80 | - | 8, 10, 12 | PIO, +8 PIA | - | - | - | SIO, CTC, PIO | KIO | 5.0V | -40 to 105 | Z84C9000ZCO |

ZiLOG PRODUCT LINE CARD



| IR Microcontrollers | | | | | | | | | | | | | | | | | |
|---------------------|-----------|-----------------|----------|----------|-------------|-------------|-----------|------------|---------------------|-----|----------------------|------------------|-----------|-----|-------------------|------------|--|
| Device | Pin Count | Package | ROM (KB) | OTP (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit/16-bit Timers | WDT | Other Features | Comm. Interfaces | LV Detect | POR | Operating Voltage | Temp Range | Development Tools |
| Z86L825 | 20 | DIP, SOIC, SSOP | 4 | - | 237 | 8 | 16 | 5 | 2 | ✓ | 2 Comparators | - | - | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO, Z86L8270100ZDP |
| Z86L826 | 20 | DIP, SOIC, SSOP | 8 | - | 237 | 8 | 16 | 5 | 2 | ✓ | 2 Comparators | - | - | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO, Z86L8270100ZDP |
| Z86L827 | 20 | DIP, SOIC, SSOP | 16 | - | 237 | 8 | 16 | 5 | 2 | ✓ | 2 Comparators | - | - | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO, Z86L8270100ZDP |
| Z86L82 | 28 | DIP, SOIC, SSOP | 4 | - | 237 | 8 | 23 | 5 | 2 | ✓ | 2 Comparators | - | - | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L85 | 28 | DIP, SOIC, SSOP | 8 | - | 237 | 8 | 23 | 5 | 2 | ✓ | 2 Comparators | - | - | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L88 | 28 | DIP, SOIC, SSOP | 16 | - | 237 | 8 | 23 | 5 | 2 | ✓ | 2 Comparators | - | - | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L81 | 28 | DIP, SOIC, SSOP | 24 | - | 237 | 8 | 23 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L86 | 28 | DIP, SOIC, SSOP | 32 | - | 237 | 8 | 23 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L98 | 28 | DIP, SOIC, SSOP | 64 | - | 237 | 8 | 23 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L87 | 40, 48 | DIP, SSOP | 16 | - | 236 | 8 | 31 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L89 | 40, 48 | DIP, SSOP | 24 | - | 237 | 8 | 31 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L73 | 40, 48 | DIP, SSOP | 32 | - | 237 | 8 | 31 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L987 | 40, 48 | DIP, SSOP | 64 | - | 237 | 8 | 31 | 6 | 2 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | Z86L9800ZEM, Z86L8800ZCO |
| Z86L991 | 28 | DIP, SOIC | 16 | - | 489 | 8 | 24 | 6 | 3 | ✓ | 2 Comparators | - | ✓ | ✓ | 2.3-5.5V | 0 to 70 | Z86L9900100ZEM, Z86L9900100ZCO |
| Z86L990 | 40, 48 | DIP, SSOP | 16 | - | 489 | 8 | 32 | 6 | 3 | ✓ | 2 Comparators, 4 ADC | - | ✓ | ✓ | 2.3-5.5V | 0 to 70 | Z86L9900100ZEM, Z86L9900100ZCO |

| Crimzon™ IR Microcontrollers | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------|---------|-----------------|----------|-------------|-------------|-----------|------------|---------------------|-----------------------|----------------|----------------------------------|-----------|-----|-------------------|------------|-------------------|--------------------------------|
| Device | Pin Count | Package | ROM (KB) | OTP (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | 8-bit/16-bit Timers | WDT | Other Features | Comm. Interfaces | LV Detect | POR | Operating Voltage | Temp Range | Development Tools | |
| ZLP12840 | 28 | 20,28 | DIP, SOIC, SSOP | - | 128 | 1K | 8 | 16-24 | 6 | (2) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD, flexible SMR | UART | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |

| | | | | | | | | | | | | | | | | | |
|-----------------|----------------|-----------------|----|----|-----|---|-------|---|-----------------------|---|----------------------------------|------|---|---|----------|---------|--|
| ZLP12840xxx96* | 20,28 | DIP, SOIC, SSOP | - | 96 | 1K | 8 | 16-24 | 6 | (2) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD, flexible SMR | UART | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLP12840xxx64* | 20,28 | DIP, SOIC, SSOP | - | 64 | 1K | 8 | 16-24 | 6 | (2) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD, flexible SMR | UART | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLP12840xxx32* | 20,28 | DIP, SOIC, SSOP | - | 32 | 1K | 8 | 16-24 | 6 | (2) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD, flexible SMR | UART | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLP32300xxx32* | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 32 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLP32300xxx16* | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 16 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLP32300xxx08* | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 8 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLP32300xxx04* | 20, 28, 40, 48 | DIP, SOIC, SSOP | - | 4 | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLR32300xxx32** | 20,28, 48 | DIP, SOIC, SSOP | 32 | - | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLR32300xxx24** | 20,28, 48 | DIP, SOIC, SSOP | 24 | - | 237 | 8 | 16-32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLR32300xxx16** | 48 | SSOP | 16 | - | 237 | 8 | 32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLR32300xxx08** | 48 | SSOP | 8 | - | 237 | 8 | 32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLR32300xxx04** | 48 | SSOP | 4 | - | 237 | 8 | 32 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP323ICE01ZAC, ZLP32300100KIT |
| ZLR16300xxx16** | 20,28 | DIP, SOIC, SSOP | 16 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLR16300xxx08** | 20,28 | DIP, SOIC, SSOP | 8 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLR16300xxx04** | 20,28 | DIP, SOIC, SSOP | 4 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLR16300xxx02** | 20,28 | DIP, SOIC, SSOP | 2 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |
| ZLR16300xxx01** | 20,28 | DIP, SOIC, SSOP | 1 | - | 237 | 8 | 16-24 | 6 | (1) 8-bit, (1) 16-bit | ✓ | 2 Comparators, HVD | - | ✓ | ✓ | 2.0-3.6V | 0 to 70 | ZLP128ICE01ZEM, ZLP32300100KIT |

ZiLOG PRODUCT LINE CARD



TV Controllers (Closed Caption / V Chip / Time of Day)

| Device | Pin Count | Package | ROM (KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | Closed Captioning | On-Screen Display | V-Chip | Time of Day | Selectable I ² C Address | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|-----------|----------|-------------|-------------|-----------|------------|-------------------|-------------------|--------|-------------|-------------------------------------|-------------------|------------|---|
| Z86128 | 18 | DIP | - | - | 12 | - | - | ✓ | - | - | - | - | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z86129 | 18 | DIP, SOIC | - | - | 12 | - | - | ✓ | ✓ | ✓ | ✓ | - | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z86130 | 18 | DIP, SOIC | - | - | 12 | - | - | - | - | ✓ | ✓ | - | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z86131 | 18 | DIP, SOIC | - | - | 12 | - | - | - | - | - | ✓ | - | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z86228 | 18 | DIP | - | - | 12 | - | - | ✓ | - | - | - | ✓ | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z86229 | 18 | DIP, SOIC | - | - | 12 | - | - | ✓ | ✓ | ✓ | ✓ | ✓ | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z86230 | 18 | DIP, SOIC | - | - | 12 | - | - | - | - | ✓ | ✓ | ✓ | 4.75-5.25V | 0 to 70 | Contact ZiLOG or visit www.zilog.com |

TV Controllers (On-Screen Display Optimized for Asian Language Display)

| Device | Pin Count | Package | ROM/OTP(KB) | RAM (Bytes) | Speed (MHz) | I/O Lines | Interrupts | Timers | WDT | PWMs | 4-bit A/D Channels | Comm. Interfaces | On-Screen Display | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|-----------|-------------|-------------|-------------|-----------|------------|--------|-----|------|--------------------|------------------|-------------------|-------------------|------------|-------------------|
| Z90231 | 44, 42 | QFP, SDIP | 32 (OTP) | 236 | 6 | 27 | 6 | 2 | ✓ | 11 | 4 | I ² C | ✓ | 4.5-5.5V | 0 to 70 | Z9025900ZEM |
| Z90233 | 44, 42 | QFP, SDIP | 16 | 236 | 6 | 27 | 6 | 2 | ✓ | 11 | 4 | I ² C | ✓ | 4.5-5.5V | 0 to 70 | Z9025900ZEM |
| Z90234 | 44, 42 | QFP, SDIP | 24 | 236 | 6 | 27 | 6 | 2 | ✓ | 11 | 4 | I ² C | ✓ | 4.5-5.5V | 0 to 70 | Z9025900ZEM |
| Z90251 | 42 | SDIP | 32 (OTP) | 300 | 6 | 27 | 6 | 2 | ✓ | 11 | 4 | I ² C | ✓ | 4.5-5.5V | 0 to 70 | Z9025900ZEM |
| Z90255 | 42 | SDIP | 32 | 300 | 6 | 27 | 6 | 2 | ✓ | 11 | 4 | I ² C | ✓ | 4.5-5.5V | 0 to 70 | Z9025900ZEM |

Serial Communication Controllers

| Device | Pin Count | Package | Controller Type | Mbps (max.) | Speed (MHz) | FIFO | | Error Detection | Integrated DMA Controller | Multi-Protocol Support | Dual Full-Duplex Channels | Temp Range | Development Tools |
|--------|-----------|-----------|-----------------|-------------|-------------|-----------|-----------|---------------------|---------------------------|------------------------|---------------------------|------------|---|
| | | | | | | Tx (byte) | Rx (byte) | | | | | | |
| Z80C30 | 40, 44 | DIP, PLCC | SCC | 2.5 | 8, 10 | 1 | 3 | CRC-16 or CRC-CCITT | - | ✓ | ✓ | 0 to 70 | Contact ZiLOG or visit www.zilog.com |
| Z85C30 | 40, 44 | DIP, PLCC | SCC | 4 | 8, 10, 16 | 1 | 3 | CRC-16 or CRC-CCITT | - | ✓ | ✓ | -40 to 105 | Contact ZiLOG or visit www.zilog.com |
| Z80230 | 40, 44 | DIP, PLCC | ESCC | 4 | 10, 16 | 4 | 8 | CRC-16 or CRC-CCITT | - | ✓ | ✓ | 0 to 70 | Contact ZiLOG or visit www.zilog.com |

| | | | | | | | | | | | | | | |
|--------|---------|------------|-------|----|---------------|----|----|---------------------------|---|---|---|---|------------|--------------------------------------|
| Z85230 | 40, 44 | DIP, PLCC | ESCC | 5 | 8, 10, 16, 20 | 4 | 8 | CRC-16 or CRC-CCITT | - | ✓ | ✓ | ✓ | -40 to 105 | Z8S18000ZCO, Z8038000ZCO |
| Z85233 | 44 | PLCC, LQFP | EMSCC | 4 | 10, 16, 20 | 4 | 8 | CRC-16 or CRC-CCITT | - | ✓ | - | - | 0 to 70 | Z8038000ZCO |
| Z16C30 | 68, 100 | PLCC, QFP | USC | 10 | 10 | 32 | 32 | CRC-32, CRC-16, CRC-CCITT | - | ✓ | ✓ | ✓ | -40 to 105 | Z16C3001ZCO |
| Z16C32 | 68, 80 | PLCC, LQFP | IUSC | 20 | 20 | 32 | 32 | CRC-32, CRC-16, CRC-CCITT | ✓ | ✓ | ✓ | ✓ | 0 to 70 | Contact ZILOG or visit www.zilog.com |
| Z16C35 | 68 | PLCC | IUSC | 4 | 10, 16 | 1 | 3 | CRC-16 or CRC CCITT | ✓ | ✓ | ✓ | ✓ | 0 to 70 | Contact ZILOG or visit www.zilog.com |

Modems

| Device | Pin Count | Package | OTP | Mbps (max.) | Speed (MHz) | Interrupts | I/O Lines | Timers | WDT | Analog Features | Other Features | Comm Interfaces | | Operating Voltage | Temp Range | Development Tools |
|--------|-----------|------------|-----|-------------|-------------|------------|-----------|--------|-------------------------|-----------------|--|------------------|----------|-------------------|------------|--------------------------------------|
| | | | | | | | | | | | | DTE | DCE | | | |
| Z02205 | 28 | SOIC, DIP | ✓ | - | 16 | 1 | - | 2 | Some firmware revisions | 2 Comparators | AT Command Set, Hndshk, Guard Controls | Serial | Parallel | 4.5-5.5V | 0 to 70 | Z0220100ZCO - Evaluation Kit |
| Z02201 | 44 | PLCC | - | - | 12.29 | - | - | - | - | 12-bit DAC, ADC | V.22bis, Parallel IF, DSP, AFE, OSC | Serial, Parallel | DAA | +5.0V | -40 to 105 | Z0220200ZCO - Evaluation Kit |
| Z02922 | 44 | PLCC | - | - | 12.29 | - | - | - | - | 12-bit DAC, ADC | V.29QC, V.29, V.22bis, Parallel IF, DSP, AFE, OSC | Serial, Parallel | DAA | 4.75-5.25 | 0 to 70 | Contact ZILOG or visit www.zilog.com |
| Z02215 | 44 | PLCC, VQFP | - | - | 24.58 | - | - | - | - | 12-bit DAC, ADC | Single Chip Modem, DSP, AFE, Controller, V.22bis, AT Command Set | Serial | DAA | 4.5-5.5V | -40 to 105 | Z0221500ZCO - Evaluation Kit |

IrDA Transceivers

| Device | Pin Count | Package (shielded epoxy) | Dimensions L x W x H (mm) | Data Rate Bits per sec. (BPS) | I/O | Listen Current (typ.) | Link Distance | On-Device Features | | Receive Current (typ.) | Voltage Range | Temp range | Development Tools |
|-----------|-----------|--------------------------|---------------------------|-------------------------------|-----|-----------------------|---------------|--------------------|--------------|------------------------|---------------|------------|-------------------|
| | | | | | | | | Shutdown | Mode Control | | | | |
| ZHX1810MV | 6 | Low Profile | 8.9 x 3.5 x 2.75 | 2.4 -115.2 K | 3 | 90 µA | 1 meter | ✓ | - | 90 µA | 2.4-5.5V | -30 to +85 | - |
| ZHX1820TV | 6 | Top Look LP | 8.9 x 3.5 x 2.75 | 2.4 -115.2 K | 3 | 90 µA | 1 meter | ✓ | - | 90 µA | 2.4-5.5V | -30 to +85 | - |
| ZHX1203MB | 7 | Ultra Slim | 7.3 x 2.8 x 1.9 | 2.4 -115.2 K | 3 | 100 µA | 20 cm | ✓ | - | 100 µA | 2.4-3.6V | -30 to +85 | - |
| ZHX1223TB | 7 | Top Look Ultra | 7.3 x 2.8 x 1.9 | 2.4 -115.2 K | 3 | 100 µA | 20 cm | ✓ | - | 100 µA | 2.4-3.6V | -30 to +85 | - |
| ZHX1403MA | 7 | Ultra Slim | 7.3 x 2.8 x 1.9 | 2.4 -115.2 K | 3 | 6 µA | 1 meter | ✓ | - | 100 µA | 2.4-3.6V | -30 to +85 | - |
| ZHX1423TA | 7 | Top Look Ultra | 7.3 x 2.8 x 1.9 | 2.4 -115.2 K | 3 | 6 µA | 1 meter | ✓ | - | 100 µA | 2.4-3.6V | -30 to +85 | - |
| ZHX2022MV | 8 | Standard | 9.7 x 4.7 x 4 | 2.4 K- 4 M | 3 | 2 mA | 1 meter | ✓ | ✓ | 2 mA | 2.7-5.5V | -30 to +85 | - |
| ZHX2022TV | 8 | Top Look Standard | 9.7 x 4.7 x 4 | 2.4 K- 4 M | 3 | 2 mA | 1 meter | ✓ | ✓ | 2 mA | 2.7-5.5V | -30 to +85 | - |

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