

The ZiLOG Family of Serial Communication Controllers

Setting the standards for SCCs

Over the last 20 years ZiLOG has set the standard for SCCs. Built from the industry acclaimed Serial Communication Controller core, ZiLOG offers a wide selection of (SCCs) based on your application requirements.

Reducing the need for external logic

ZiLOG's SCCs offer low power consumption, higher performance, and superior noise immunity. The many on-chip features offered in our SCCs help dramatically to reduce the need for external logic found with much of the competition. Go with an SCC you can trust, and make ZiLOG your one-stop SCC solution provider.

Offering a fully integrated solution

The standard serial and integrated communications controllers, Z85C30 and Z16C35, allow you to easily implement a fully integrated solution for many networking applications. The chips' features include:

- Dual full-duplex channels
- Ability to accommodate a crystal oscillator, baud rate generator, and digital phase-locked loop on each channel
- Processing speeds up to 4 Mbps
- Multi-protocol format (async, monosync, bisync, SDLC/HDLC, SDLC/HDLC loop)
- Encodes in the following modes: NRZ, NRZI, FM0, FM1, and Manchester
- CRC-16 or CRC-CCITT error detection
- 1-byte transmit FIFO/3-byte receive FIFO
- 2 transmit and 2 receive DMA channels (16C35 only)

Simplifying software

The enhanced dual and mono SCCs Z80230, Z85230, and Z85233, include many features that make programming easy. These parts also reduce CPU overhead, allowing the programmer to select packet handling response and improve cycle access recovery time. Features include:

- Dual full-duplex channels (Z80230/Z85230)
- Single full-duplex channel (Z85233 only)



- Ability to accommodate a crystal oscillator, baud rate generator, and digital phase-locked loop on each channel
- Processing speeds up to 5 Mbps
- Multi-protocol format (async, monosync, bisync, SDLC/HDLC, SDLC/HDLC loop)
- Encodes in the following modes: NRZI, FM0, FM1, and Manchester
- CRC-16 or CRC-CCITT error detection
- 4-byte transmit FIFO/8-byte receive FIFO

Increasing speed

The standard and integrated universal serial controllers Z16C30, Z16C35, and Z16C32 offer faster performance. Features include:

- Dual full-duplex channels (Z16C30)
- Single full-duplex channel (Z16C32)
- Accommodates two baud rate generators and one digital phase-locked loop (on each channel)
- 2 DMA control signals per channel (Z80C30/Z85C30 only)

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ZiLOG SCC Solutions

Standard and integrated universal serial controllers

Z16C30/Z16C32 (Continued)

- Processing speeds up to 10 Mbps (Z16C30)
- Processing speeds up to 20 Mbps (Z16C32)
- Multi-protocol format (async, monosync, slaved monosync, bisync, isochronous, nine-bit, SDLC/HDLC, SDLC/HDLC loop)
- Encodes in the following modes: NRZ, NRZI-Mark, NRZI-Space, Bi-Phase-Mark (FM1), Bi-Phase-Space (FM0), Bi-Phase-Level (Manchester), Differential Bi-Phase-Level
- CRC-32, CRC-16, and CRC-CCITT
- 32-byte transmit FIFO/32-byte receive FIFO
- 2 DMA control signals per channel (16C30 only)
- Transmit and receive DMA controllers with single buffer, pipelined, array, and linked-list modes (16C32 only)

| Serial Family | Channels | DMA Controllers | Bus Interface | MHz | Part number | Package | Pins | Op. Temp. (°C) | | | |
|---------------|-------------|-----------------|----------------------------|-------------|--------------|---------|-------------|--|------|----|--|
| SCC | 2 | 0 | Multiplex | 8 | Z80C3008PEC | DIP | 40 | -40 -100 0 -70 | | | |
| | | | | | Z80C3008PSC | | | | | | |
| | | | | | Z80C3008VSC | PLCC | | | 44 | | |
| | | | | 10 | Z80C3010PSC | | DIP | | 40 | | |
| | | | | | Z80C3010VSC | PLCC | 44 | | | | |
| | | | | | Nonmultiplex | 8 | Z85C3008PEC | | DIP | 40 | -40 -100 0 -70 -40 -100 0 -70 -40 -100 0 -70 -40 -100 0 -70 |
| | | | Z85C3008PSC | | | | | | | | |
| | | | Z85C3008VEC | PLCC | | | 44 | | | | |
| | | | Z85C3008VSC | | | | | | | | |
| | | | 10 | Z85C3010PEC | | DIP | 40 | | | | |
| | | | | Z85C3010PSC | | | | | | | |
| | | | | Z85C3010VEC | | PLCC | | 44 | | | |
| | | | | Z85C3010VSC | | | | | | | |
| | | | 16 | Z85C3016PSC | DIP | 40 | | | | | |
| Z85C3016VEC | | | | | | | | | | | |
| Z85C3016VSC | PLCC | 44 | | | | | | | | | |
| | | | | | | | | | | | |
| ISCC | 2 | 2 | Multiplex and nonmultiplex | 10 | Z16C3510VSC | PLCC | 68 | -40 -100 0 -70 | | | |
| | | | | 16 | Z16C3516VSC | | | | | | |
| ESCC | 2 | 0 | Multiplex | 10 | Z8023010PSC | DIP | 40 | -40 -100 0 -70 | | | |
| | | | | | Z8023010VSC | | | | | | |
| | | | | | Z8023016PSC | PLCC | | | 44 | | |
| | | | | 16 | Z8023016VSC | | DIP | | 40 | | |
| | | | | | Nonmultiplex | 8 | Z8523008PEC | | DIP | 40 | -40 -100 0 -70 -40 -100 0 -70 -40 -100 0 -70 -40 -100 0 -70 |
| | | | | | | | Z8523008PSC | | | | |
| | | | Z8523008VEC | PLCC | | | 44 | | | | |
| | | | Z8523008VSC | | | | | | | | |
| | | | 10 | Z8523010PEC | | DIP | 40 | | | | |
| | | | | Z8523010PSC | | | | | | | |
| | | | | Z8523010VEC | | PLCC | | 44 | | | |
| | | | | Z8523010VSC | | | | | | | |
| | | | 16 | Z8523016PEC | DIP | 40 | | | | | |
| | | | | Z8523016PSC | | | | | | | |
| Z8523016VEC | PLCC | 44 | | | | | | | | | |
| Z8523016VSC | | | | | | | | | | | |
| 20 | Z8523020PSC | DIP | 40 | | | | | | | | |
| | Z8523020VSC | | | PLCC | 44 | | | | | | |
| EMSCC | 1 | 0 | Nonmultiplex | 10 | Z8523310FSC | PQFP | 44 | -40 -100 0 -70 | | | |
| | | | | | Z8523310VSC | | | | | | |
| | | | | 16 | Z8523316FSC | PQFP | | | | | |
| | | | | | Z8523316VSC | | | | PLCC | | |
| USC | 2 | 0 | Multiplex and nonmultiplex | 20 | Z8523320FSC | PQFP | 100 | -40 -100 0 -70 -40 -100 0 -70 | | | |
| | | | | | Z16C3010AEC | | | | | | |
| | | | | 10 | Z16C3010ASC | PLCC | | | 68 | | |
| | | | | | Z16C3010VEC | | | | | | |
| IUSC | 1 | 2 | Multiplex and nonmultiplex | 20 | Z16C3220FSC | PQFP | 80 | -40 -100 0 -70 | | | |
| | | | | | Z16C3220VSC | | | | PLCC | 68 | |

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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