

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					
					Nonmultiplex	8	Z85C3008PEC		DIP	40
			Z85C3008PSC							
			Z85C3008VEC	PLCC			44			
			Z85C3008VSC							
			10	Z85C3010PEC		DIP	40			
				Z85C3010PSC						
				Z85C3010VEC		PLCC	44			
				Z85C3010VSC						
			16	Z85C3016PSC	DIP	40				
Z85C3016VEC	PLCC	44								
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				PLCC	44
					16	Z8023016PSC	DIP			
				Z8023016VSC		PLCC				
				Nonmultiplex			8		Z8523008PEC	DIP
					Z8523008PSC					
			Z8523008VEC		PLCC	44				
			Z8523008VSC							
			10		Z8523010PEC	DIP	40			
					Z8523010PSC					
					Z8523010VEC	PLCC	44			
					Z8523010VSC					
			16	Z8523016PEC	DIP	40				
				Z8523016PSC			PLCC	44		
Z8523016VEC	PLCC	44								
Z8523016VSC				PLCC	44					
20	Z8523020PSC	DIP	40							
	Z8523020VSC			PLCC	44					
EMSCC	1	0	Nonmultiplex	10	Z8523310FSC	PQFP	44	-40 -100 0 -70		
					Z8523310VSC				PLCC	
				16	Z8523316FSC	PQFP				
					Z8523316VSC				PLCC	
USC	2	0	Multiplex and nonmultiplex	20	Z8523320FSC	PQFP	100	-40 -100 0 -70 -40 -100 0 -70		
					Z16C3010AEC				VQFP	
				10	Z16C3010ASC	PLCC				68
					Z16C3010VEC				PLCC	
Z16C3010VSC	PLCC	68								
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

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9