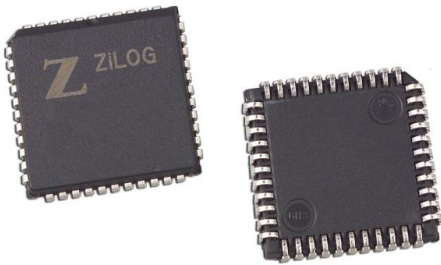


Z8523008VEC Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	Z8523008VEC-DG
Manufacturer	Zilog
Manufacturer Product Number	Z8523008VEC
Description	IC INTERFACE SPECIALIZED 44PLCC
Detailed Description	Interface 44-PLCC

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Purchase and inquiry

Manufacturer Product Number:

Z8523008VEC

Series:

-

Applications:

-

Voltage - Supply:

4.5V ~ 5.5V

Supplier Device Package:

44-PLCC

Base Product Number:

Z85230

Manufacturer:

Zilog

Product Status:

Obsolete

Interface:

Bus

Package / Case:

44-LCC (J-Lead)

Mounting Type:

Surface Mount

Environmental & Export classification

RoHS Status:

RoHS non-compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.31.0001

Moisture Sensitivity Level (MSL):

3 (168 Hours)

ECCN:

EAR99

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)

(Continued on back side)



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		
					Z80C3008PSC			0 -70		
					Z80C3008VSC	PLCC	44			
				10	Z80C3010PSC	DIP	40			
					Z80C3010VSC	PLCC	44			
					Nonmultiplex	8	Z85C3008PEC	DIP	40	-40 -100
			Z85C3008PSC					0 -70		
			Z85C3008VEC	PLCC			44	-40 -100		
			Z85C3008VSC				0 -70			
			10	Z85C3010PEC		DIP	40	-40 -100		
				Z85C3010PSC				0 -70		
				Z85C3010VEC	PLCC	44	-40 -100			
			Z85C3010VSC			0 -70				
			16	Z85C3016PSC	DIP	40				
Z85C3016VEC	PLCC	44		-40 -100						
Z85C3016VSC				0 -70						
ISCC	2	2	Multiplex and nonmultiplex	10	Z16C3510VSC	PLCC	68	0 -70		
				16	Z16C3516VSC					
ESCC	2	0	Multiplex	10	Z8023010PSC	DIP	40	0 -70		
					Z8023010VSC	PLCC	44			
					16	Z8023016PSC	DIP	40		
				Z8023016VSC		PLCC	44			
				Nonmultiplex		8	Z8523008PEC	DIP	40	-40 -100
					Z8523008PSC				0 -70	
			Z8523008VEC		PLCC		44	-40 -100		
			Z8523008VSC				0 -70			
			10		Z8523010PEC	DIP	40	-40 -100		
					Z8523010PSC			0 -70		
				Z8523010VEC	PLCC	44	-40 -100			
			Z8523010VSC			0 -70				
			16	Z8523016PEC	DIP	40	-40 -100			
				Z8523016PSC			0 -70			
Z8523016VEC	PLCC	44		-40 -100						
Z8523016VSC			0 -70							
20	Z8523020PSC	DIP	40							
	Z8523020VSC	PLCC	44							
EMSCC	1	0	Nonmultiplex	10	Z8523310FSC	PQFP	44	0 -70		
					Z8523310VSC	PLCC				
				16	Z8523316FSC	PQFP				
					Z8523316VSC	PLCC				
USC	2	0	Multiplex and nonmultiplex	20	Z8523320FSC	PQFP	100	-40 -100		
					Z16C3010AEC	VQFP				
				10	Z16C3010ASC				68	-40 -100
					Z16C3010VEC	PLCC				
Z16C3010VSC			0 -70							
IUSC	1	2	Multiplex and nonmultiplex	20	Z16C3220FSC	PQFP	80	0 -70		
					Z16C3220VSC	PLCC	68			

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