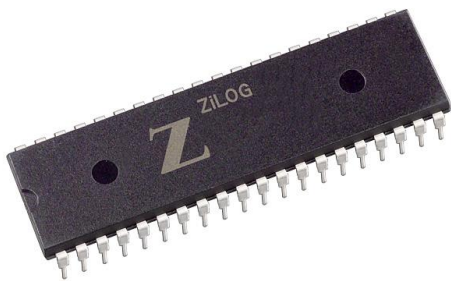


Z8523008PSC Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

| | |
|------------------------------|--------------------------------|
| DiGi Electronics Part Number | Z8523008PSC-DG |
| Manufacturer | Zilog |
| Manufacturer Product Number | Z8523008PSC |
| Description | IC INTERFACE SPECIALIZED 40DIP |
| Detailed Description | Interface 40-PDIP |



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

Z8523008PSC

Series:

-

Applications:

-

Voltage - Supply:

4.5V ~ 5.5V

Supplier Device Package:

40-PDIP

Base Product Number:

Z85230

Manufacturer:

Zilog

Product Status:

Obsolete

Interface:

Bus

Package / Case:

40-DIP (0.620", 15.75mm)

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

RoHS non-compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.31.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

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 |
| | | | 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 |
| | | | | | 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 | | | |
| | | | | | Z16C3010AEC | VQFP | 100 | -40 -100 | |
| | | | | 10 | Z16C3010ASC | | | 0 -70 | |
| | | | | | Z16C3010VEC | PLCC | 68 | -40 -100 | |
| Z16C3010VSC | | | 0 -70 | | | | | | |
| IUSC | 1 | 2 | Multiplex and nonmultiplex | 20 | Z16C3220FSC | PQFP | 80 | 0 -70 | |
| | | | | | Z16C3220VSC | PLCC | 68 | | |

OUR CERTIFICATE

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