

Z84C90CMOS Z80 KIO SERIAL/ PARALLEL/COUNTER/TIMER

FEATURES

- Two Independent Synchronous/Asynchronous Serial Channels
- Three 8-Bit Parallel Ports
- Four Independent Counter/Timer Channels
- On-Chip Clock Oscillator/Driver
- Software/Hardware Resets
- Designed in CMOS for Low Power Operation

- Supports Z80 Family Interrupt Daisy-Chain
- Programmable Interrupt Priorities
- 8, 10 and 12.5 MHz Bus Clock Frequency
- Single +5V ±10% Power Supply
- Available in 84-Pin PLCC and 80-Pin QFP Packages

GENERAL DESCRIPTION

Zilog's Z84C90 Serial/Parallel I/O Counter/Timer (KIO) is a multi-channel, multi-purpose I/O device designed to provide the end-user with a cost effective and powerful solution to meet the designer's peripheral needs. The Z84C90 combines the features of one Z84C30 CTC, one Z84C4xSIO, one Z84C20 PIO, a byte-wide bit programmable I/O and a crystal oscillator in a single 84-pin package.

Utilizing fifteen internal registers for data and programming information, the KIO can easily be configured to any given system environment. Although the optimum performance is obtained with a Z84C00 CPU, the KIO can also be used with any other CPU.

GENERAL DESCRIPTION (Continued)

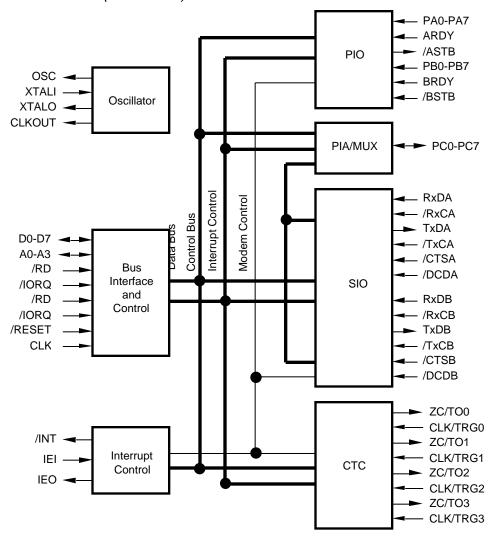


Figure 1. Z84C90 Functional Block Diagram

© 1997 by Zilog, Inc. All rights reserved. No part of this document may be copied or reproduced in any form or by any means without the prior written consent of Zilog, Inc. The information in this document is subject to change without notice. Devices sold by Zilog, Inc. are covered by warranty and patent indemnification provisions appearing in Zilog, Inc. Terms and Conditions of Sale only.

ZILOG, INC. MAKES NO WARRANTY, EXPRESS, STATUTORY, IMPLIED OR BY DESCRIPTION, REGARDING THE INFORMATION SET FORTH HEREIN OR REGARDING THE FREEDOM OF THE DESCRIBED DEVICES FROM INTELLECTUAL PROPERTY INFRINGEMENT. ZILOG, INC. MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

Zilog, Inc. shall not be responsible for any errors that may appear in this document. Zilog, Inc. makes no commitment to update or keep current the information contained in this document.

Zilog's products are not authorized for use as critical components in life support devices or systems unless a specific written agreement pertaining to such intended use is executed between the customer and Zilog prior to use. Life support devices or systems are those which are intended for surgical implantation into the body, or which sustains life whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Zilog, Inc. 210 East Hacienda Ave. Campbell, CA 95008-6600 Telephone (408) 370-8000 Telex 910-338-7621 FAX 408 370-8056 Internet: http://www.zilog.com