

Z86CCP00ZEM

IN-CIRCUIT EMULATOR

HARDWARE FEATURES

■ Supported Products

Packages	Emulation	Programming	Notes
18-pin DIP	Z86C03/04/06/07	Z86E04/07/08	1
	/08/09/16/19	Z86E03/06	
	Z86E03/04/06/07/08		
20-pin DIP	N/A	Z86717	2
18-pin SOIC	N/A	Z86E04/07/08	3
		Z86E03/06	
20-pin SOIC	N/A	Z86717	4
20-pin SSOP	N/A	Z86717	5
28-pin DIP	Z86C03/31/32/233	Z86E30/31	6,7
28-pin SOIC	N/A	N/A	
40-pin DIP	Z86C40/243	Z86E40	7,8
44-pin PLCC	N/A	N/A	
44-pin QFP	N/A	N/A	

Notes:

- 1. E03/06; With optional, separately purchased adapter, Z86E0601ZDP.
- 2. With optional, separately purchased adapter, Z86E0700ZDP.
- 3. With optional, separately purchased adapter, Z8671701ZDp.
- 4. With optional, separately purchased adapter, Z8671701ZDS.
- 5. With optional, separately purchased adapter, Z8671701ZDH.
- 6. To emulate Z86233, select Z86C30 with 8 KB or ROM.
- 7. E30/31/140: With opt., separately purchased acc. kit Z86CCP00ZAC
- 8. To emulate Z86243, select Z86C40 with 8 KB or ROM.
- ICEBOX Emulator Provides In-Circuit Program Debug Emulation
- Z8 GUI Emulator Software

- Bit-Programmable I/O Ports for Digital Input/Output Functions
- RS-232 Connector
- One-Time Programmable

GENERAL DESCRIPTION

The Z86CCP00ZEM is a member of Zilog's family of incircuit emulators providing support for the Consumer Controller Processor (CCP™) microcontrollers.

The emulator provides essential timing and I/O circuitry to simplify user emulation of the prototype hardware and software product.



Data entering, program debugging, and OTP programming are performed by the monitor ROM and the host package, which communicates through RS-232C serial interface. The user program can be downloaded directly from the host computer through the RS-232C

connector. User code may be executed through debugging commands in the monitor.

The Z86CCP00ZEM emulator can be connected to a serial port (COM1, COM2, COM3, and COM4) of the host computer and uses Graphical User Interface (GUI) software.

SPECIFICATIONS

Operating Conditions

Operating Temperature: 20°C ±10°C Supply Voltage +7.5 VDC to +9.0 VDC (+8.0 VDC Typical)

Minimum Emulation Speed: 1 MHz Maximum Emulation Speed: 8 MHz

Power Requirements

+8.0 VDC @ 0.5A Minimum

Dimensions

Width: 7.0 in. (17.7 cm) Length: 9.0 in (22.9 cm) Height: 0.9 in. (2.3 cm)

Serial Interface

RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

HOST COMPUTER

Minimum Requirements

IBM PC (or 100-percent compatible) 386-based machine 33 MHz
4 MB RAM
VGA Video Adapter
Hard Disk Drive (1 MB free space)
3.5-inch, High-Density (HD) Floppy Disk Drive
RS-232C COM port
Mouse or Pointing Device
Microsoft Windows 3.1

The following changes to the Minimum Requirements are recommended for increased performance:

486- or Pentium-based machine 66 MHz (or faster) 8 MB or RAM (or more) SVGA Video Adapter Color Monitor Printer

KIT CONTENTS

Z8® CCP™ Emulator

CMOS Z86C9320VSC
20 MHz CMOS Z86C5020FSE ICE Chip
8K x 8 Static RAM (For Code Memory)
18-pin DIP Zero Insertion Force (ZIF)
Programming Socket
Sockets Available for 18/28/40-Pin Target Cables
Holes Available for 28/40-Pin ZIF Sockets
RS-232C Interface
Reset Switch

Cables

18-Pin DIP Target Cable

Devices

One Z86E0812PSC (18-Pin DIP)

Software (IBM PC Platform)

Z8 GUI Emulator Software ZASM Cross-Assembler/MOBJ Object File Utilities Production Languages Corporation COMPASS/Z8 (Evaluation Version)

Documentation

Emulator User Manual
Discrete Z8 Databook
Z8 Microcontroller Technical Manual
Registration Card
Product Information



Z8 CCP Emulator Accessory Kit (Z86CCP00ZAC)

(Not included with Z86CCP00ZEM) 28-Pin ZIF Socket 28-Pin DIP Target Cable 40-Pin ZIF Socket 40-Pin DIP Target Cable DB25 RS-232C Cable Power Cable with Banana Plugs

© 1994, 1996 by Zilog, Inc. All rights reserved. No part of this document may be copied or reproduced in any form or by any means without 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 FAX (408) 370-8056

Internet: http://www.zilog.com