



Z8700000TSC

Emulation Module

Quick Start Guide

QS000602-0601

Z8700000TSC
Emulation Module



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EMULATION MODULE

Overview

The Z87000 Emulation Module (Proto-Pack) can be used like an OTP for plug-in emulation of the 84-pin PLCC Z87000 chip in targeted applications. The module uses external EPROMs for the Z87000 ROM code to provide immediate software verification with nearly identical electrical characteristics.

Z87000 application code can be developed and debugged using the Z87000 emulator. Code is then transferred to EPROMs for final testing with the emulation module.

Supported Zilog Devices

Z87000

Hardware Specifications

Dimensions	2 in. H x 3.50 in. L x 3.45 in. W
Power Supply Voltage	+4.5 VDC to +5.5 VDC Max (+5.0 VDC typical)
Power Supply Current	100 mA typical
Operating Temperature	20 degrees C, ± 10 degrees C
Operating Humidity	10-90% RH (non-condensing)

Support Products Package Contents

The Emulation Module Support Products Package contains the following items:

Qty.	Description
1	Z87000 Proto-Pack
2	Blank 35 ns 32K x 8 EPROMs
1	Z8700000TSC Emulation Module User's Guide

(OVER)

Using the Emulation Module

1. With your user code, program the two 35 ns EPROMs (one for High byte and one for Low byte).
2. Plug the EPROMs containing Low byte and High byte into sockets U2 and U3, respectively, aligning the notches as shown on the board.
3. Ensure that the power of the target application is turned off.
4. Plug the module firmly into the 84-pin PLCC socket, aligning Pin 1.

Note: To ensure proper electrical connections, you may have to clean the plug-block pins on the module and clean and adjust the pins on the target application's 84-pin PLCC socket.
5. Turn on power to the target application.

Table 1. Jumper Options

Jumper	Position	Description
J1	1–2	Tri-stating address bus
	2–3	Connecting address bus
J2	1–2	Use with 27C128 16K x 8 EPROMs
	2–3	Use with 27C256 32K x 8 EPROMs