



## Z0221500ZCO

### *Z02215 MODEM EVALUATION KIT*

---

#### KEY FEATURES

- Z02215™ Single-Chip modem DSP, Analog Front End, controller, and on-chip ROM/ RAM to hold the Controller and Datapump firmware
- Diplomat™ Utility to program the external EEPROM, and hence the Z02215, with specific country needs
- RS-232 DB25 port interface
- Telephone line interface with RJ-11 jack
- LED indicators
- Speaker
- Operates from single 12V AC, 1 Amp wall adapter power supply

---

#### OVERVIEW

The Z02215 Modem Evaluation Kit (Z0221500ZCO) provides a platform that allows evaluation of the ZiLOG Z02215 single-chip modem. The evaluation board (including the Z02215 Single-Chip Modem) is a fully-functional modem that supports AT commands.

Modem code contained in Z02215's on-chip ROM includes V.22bis, V.22, V.21, V.23, Bell 103, Bell 212A, Bell 202, and Bell 202T as well as basic data pump driver routines, AT commands, plus other controller code.

The evaluation board provides one serial port interface with a DB25 connector and a phone line interface through the RJ-11 connector. A power supply is provided that converts 110V AC power to +12VAC.

**RELATED ZILOG PRODUCTS**

<b>Device</b>	<b>Description</b>
Z02215	2400 bps Single-Chip Modem
Z02202	2400 bps Modem Data Pump + Analog Front End
Z02923	9600 bps Modem Data Pump + Analog Front End
Z02205	Modem Controller

---

**HARDWARE SPECIFICATIONS**

Dimensions	4.50-in. height x 6.00-in. width
Oscillator Frequency (OSC)	24.576 MHz for Z02215
Host Interface	RS-232 DB25 serial interface
Date Rate from Telephone line	2400 bps (max)
Serial Data Rate from Terminal	9600 bps (max)
Power Supply Voltage	+12V AC
Power Supply Current	1 Amp
Operating Temperature	20° C, ±10° C
Operating Humidity	10-90% RH (non condensing)

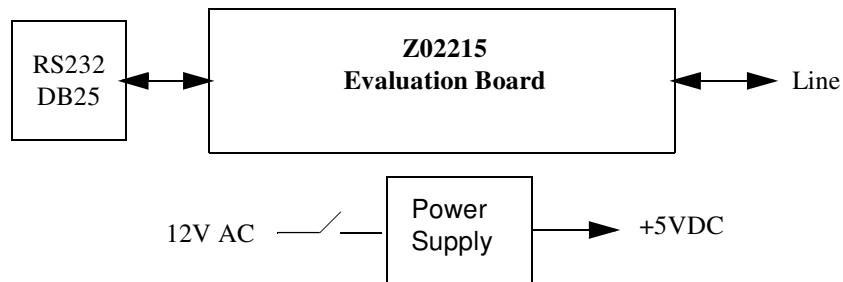


Figure 0-1. Z02215 Modem Evaluation Kit Functional Block Diagram

---

## KIT CONTENTS

### Hardware

- Z02215 V.22bis modem evaluation board
- 12V AC power converter (110V wall supply)
- Connector - female, 2.1 MM (inner diameter) by 5.5 MM (outer diameter)
- RJ11 phone cord (6-ft. length)

### Software

- Diplomat Utility, including partial table files and hex files for the following countries: UK, Germany, Italy, Japan, Korea, North America, Portugal, Spain, Australia, China, France
- Biquad Filter Design Utility

### Documentation

- *Z02215 Modem Evaluation Kit User's Manual*
- *Z02215 Single-Chip Modem with Integrated Controller, Data Pump, and Analog Front End Product Specification*
- Board schematic print files
- Evaluation board OrCAD and Gerber files

**ADDITIONAL REQUIRED AND OPTIONAL ITEMS**

## Required Items Not Supplied With Kit

- IBM PC (or compatible) with the following minimum recommended configuration:
  - 486 CPU, 66 MHz
  - 4-MB RAM
  - Hard disk drive (1-MB free space)
  - VGA video adapter
  - 3.5-inch high-density floppy disk drive
  - RS-232C communications port
  - Windows 95

**NOTE:**

1. For increased performance, ZiLOG recommends a 486- or Pentium-based machine operating at 66 MHz or faster with 8-MB of RAM.

**Information Integrity**

The information contained within this document has been verified according to the general principles of electrical and mechanical engineering. Any applicable source code illustrated in the document was either written by an authorized ZiLOG employee or licensed consultant. Permission to use these codes in any form, besides the intended application, must be approved through a license agreement between both parties. ZiLOG will not be responsible for any code(s) used beyond the intended application. Contact the local ZiLOG Sales Office to obtain necessary license agreements.

**Document Disclaimer**

© 1999 by ZiLOG, Inc. All rights reserved. Information in this publication concerning the devices, applications, or technology described is intended to suggest possible uses and may be superseded. ZiLOG, INC. DOES NOT ASSUME LIABILITY FOR OR PROVIDE A REPRESENTATION OF ACCURACY OF THE INFORMATION, DEVICES, OR TECHNOLOGY DESCRIBED IN THIS DOCUMENT. ZiLOG ALSO DOES NOT ASSUME LIABILITY FOR INTELLECTUAL PROPERTY INFRINGEMENT RELATED IN ANY MANNER TO USE OF INFORMATION, DEVICES, OR TECHNOLOGY DESCRIBED HEREIN OR OTHERWISE. Except with the express written approval ZiLOG, use of information, devices, or technology as critical components of life support systems is not authorized. No licenses or other rights are conveyed, implicitly or otherwise, by this document under any intellectual property rights.

