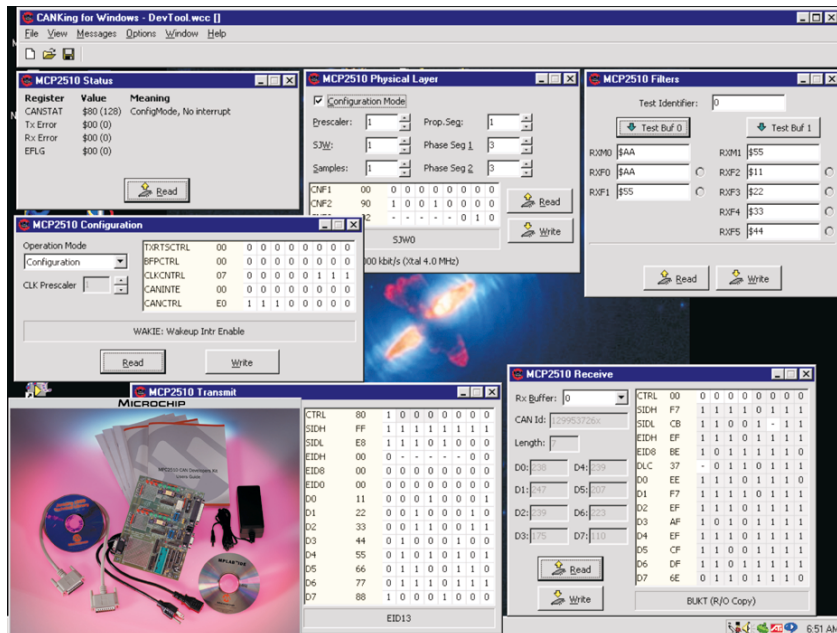


MCP2510 CAN Development Kit



The MCP2510 Controller Area Network (CAN) Developer's Kit is ideal for CAN system developers as well as for CAN beginners.

MCP2510 software development is made easy by offering a variety of features to manipulate the functionality of the MCP2510. The MCP2510 CAN Developer's Kit provides the ability to read, display, and modify all registers of the MCP2510 on a bit-by-bit or a byte-by-byte basis. Included on the target board are PICmicro® sockets, a header to access the required MCP2510 pins, and a prototype area for the user to quickly build and test his own CAN node. Also included are on-board transceivers that have jumper-configurable options to allow different bus setups. In addition, this tool provides the user with an expansion connector for connecting a user-created CAN network. By using this expansion connector in this manner, the PC interface can be used as a simple bus monitor for CAN message traffic.

For CAN beginners, the MCP2510 CAN Developer's Kit can be used as a low-cost method of demonstrating basic input and output functionality by transmitting and receiving CAN messages. Transmitted messages are set up via an easy-to-use Windows® interface. LEDs connected to the MCP2510 transmit and receive pins toggle to show message traffic. Both analog and digital signals can be generated on the target board. These signals are then received by the host PC and displayed in a de-stuffed format for easy identification of message contents. In this manner, basic CAN communication can be demonstrated and understood.

An application note has been created to get users familiar with the MCP2510 Developer's Kit and how to begin using this tool quickly and easily.

Features:

- On-board features speed understanding:
 - Ability to read, display, and modify all registers
 - Ability to manipulate message mask and message filter functions
 - Modifications can be done on a bit-by-bit basis or a byte-by-byte basis
- Aids in development of users' CAN network:
 - On-board industry-standard CAN transceivers
 - Prototype area for user-defined transceivers that are jumper selectable
 - Expansion connector enables users to connect external CAN network and use PC interface as a basic bus monitor
 - PICmicro sockets, access to MCP2510 signals and prototype area for quick CAN mode development
- CAN messages demonstration capability for CAN beginners:
 - Easy to create and send CAN messages
 - Displays received messages in de-stuffed format
 - Target board contains switches and dials to vary message contents
 - LEDs toggle on and off to signify CAN message traffic
 - Familiar user interface

Related Application Notes:

- AN733 Using the MCP2510 CAN Developer's Kit



MICROCHIP
The Embedded Control Solutions Company®

MCP2510

CAN Developer's Kit *(Continued)*

Ordering Information:

See the Microchip *Development Systems Ordering Guide* (DS30177) or www.microchip.com for specific part numbers. To order or obtain more information about the MCP2510 CAN Developer's Kit or any other Microchip product, contact the Microchip Sales Office, representative or distributor nearest you.

Host System Requirements:

PC with 486 or higher processor. Pentium® recommended
 4 MB Memory, 8 MB recommended
 2 MB hard disk space, 5 MB recommended
 VGA or Super VGA Monitor
 Microsoft® Windows 3.1 or greater
 Parallel Port

Customer Support:

Microchip maintains a worldwide network of distributors, representatives, local sales offices, Field Application Engineers, and Corporate Application Engineers. Microchip's Internet home page can be reached at: www.microchip.com

Development Tools from Microchip	
MPLAB® IDE	Integrated Development Environment
MPASM™ Assembler	Universal PICmicro macro-assembler
MPLINK™ Object Linker/ MPLIB™ Object Librarian	Linker/Librarian
MPLAB® C17	C compiler for PIC17CXXX MCUs
MPLAB® C18	C compiler for PIC18CXXX MCUs
C compilers	Sold by third-party vendors (HI-TECH, IAR, CCS)
MPLAB® SIM	Software Simulator
MPLAB® ICD	In-circuit Debugger
ICEPIC™ Emulator	Low-cost in-circuit emulator
MPLAB® ICE 2000	Full-featured modular in-circuit emulator
PICSTART® Plus	Entry-level development kit with programmer
PRO MATE® II	Full-featured, modular device programmer
KEELOQ® Evaluation Kit	Encoder/Decoder evaluator
KEELOQ® Transponder Evaluation Kit	Transmitter/Transponder evaluator
microID™ Developer's Kit	125 kHz and 13.56 MHz RFID development tools
MCP2510 CAN Developer's Kit	MCP2510 CAN evaluation/development tool
MXDEV™ 1 Analog Evaluation System	Evaluation kit for MCP devices

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