MAXQ1851 Evaluation Kit

Evaluates: MAXQ1850/MAXQ1851

General Description

The MAXQ1851 evaluation kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ1850 or the MAXQ1851 secure microcontrollers. The EV kit board features a socket for the target microcontroller, two smart card sockets, a PIN pad, and all the communication connectors needed to develop a financial terminal design. With the included software and a MAXQ® USB-to-JTAG/1-Wire adapter board, the EV kit also provides a complete, functional system ideal for software development and debugging of applications targeted for the MAXQ1850 or MAXQ1851. The MAXQ1850 and MAXQ1851 micro-controllers have similar features and are pin compatible. The MAXQ1851 has larger RAM memory size and secure nonvolatile AES key generation and storage.

EV Kit Contents

- EV Kit Board with Microcontroller Socket
- Samples of MAXQ1850 and MAXQ1851 Microcontrollers.
- MAXQ USB-to-JTAG/1-Wire Adapter
- 10-Pin (2 x 5) Connector Ribbon Cable (0.1in Spacing) for Programming
- Two Mini-USB Cables
- MAXQ1850/MAXQ1851 EV Kit Resource Package (available as a secure download):
  - Instructions to Download Rowley CrossWorks Compiler
  - EV Kit and MAXQ1850/51 Documentation
  - Example Programs and Source Code

Features and Benefit

- Easily Load and Debug Code with the Supplied MAXQ USB-to-JTAG/1-Wire Adapter Board
- JTAG Interface Provides In-Application Debugging Features
  - Step-by-Step Execution Tracing
  - Breakpointing by Code Address
  - Data Memory or Register Content View and Edit
- Includes Two-Line by 20-Character LCD Module
- Single 5V Power-Supply Input and On-Board 3.3V Voltage Regulators
- 4 x 4 Keypad Matrix
- Self-Destruct Inputs Available on Headers for Connecting to External Trigger Circuits
- Battery for Memory Backup and Real-Time Clock Operation
- Level-Shifted RS-232 Interface Included for Serial Port
- Test/Expansion Headers
- Two Smart Card Sockets (One Full-Size Socket and One SIM Socket)
- Mini-USB, Type-B Connector
- Board Schematics Provide a Convenient Reference Design
- Proven PCB Layout
- Fully Assembled and Tested

Ordering Information appears at end of data sheet.

MAXQ is a registered trademark of Maxim Integrated Products, Inc.

MAXQ1851 Evaluation Kit

Evaluates: MAXQ1850/MAXQ1851

Ordering Information

PART	TYPE
MAXQ1851-KIT#	EV Kit with MAXQ1850 and MAXQ1851 Microcontrollers

#Denotes an RoHS-compliant device that may include lead(Pb), which is exempt under the RoHS requirements.