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 microcontrollers 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.**

19-6791; Rev 0; 9/13

maxim integrated™

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.