ABRIDGED DATA SHEET

Evaluation Kit for DeepCover Secure Microcontroller

General Description

DeepCover® embedded security solutions cloak sensitive data under multiple layers of advanced physical security to provide the most secure key storage possible.

The evaluation kit (EV kit) for the DeepCover Secure Microcontroller (MAXQ1850) is a proven platform to conveniently evaluate the capabilities of the MAXQ1850. The EV kit contains the MAXQ1850 EV kit board, which has two smart card sockets, a PIN pad, and all the communication connectors needed to develop a financial terminal design. With the 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 processor.

EV Kit Contents

- MAXQ1850 EV Kit Board
- MAXQ USB-to-JTAG/1-Wire® Adapter
- 2x5-Pin Connector Ribbon Cable (0.1in Spacing) for Programming
- Standard A-to-Mini-B USB Interface Cable
- Standard A-to-B USB Interface Cable
- MAXQ1850 EV Kit Resource Package
  - Includes Evaluation Installation of Rowley CrossWorks Compiler for MAXQ30
  - Includes MAXQ1850 User's Guide, MAXQ1850 IC Data Sheet, Application Notes, and Example Programs, Including Source Code

Features

- 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 Address, or Register Access
  - Data Memory or Register Content View and Edit
- Includes Two-Line by 20-Character LCD Module for Rapid Product Development and Debugging
- Single 5V Power-Supply Input and On-Board 3.3V Voltage Regulators
- 4x4 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) for Prototyping IC Card

Ordering Information appears at end of data sheet.

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Evaluates: MAXQ1850

Evaluation Kit for DeepCover Secure
Microcontroller

Ordering Information

PART	TYPE
MAXQ1850-KIT#	EV Kit

*#Denotes a RoHS-compliant device that may include lead(Pb)
that is exempt under the RoHS requirements.*

Note to readers: This document is an abridged version of the full data sheet. Additional device information is available only in the full version of the data sheet. To request the full data sheet, go to **www.maximintegrated.com/MAXQ1850-KIT** and click on **Request Full Data Sheet**.