maxim integrated™

MAXQ1740 Evaluation Kit
Evaluates: MAXQ1740

General Description

The MAXQ1740 evaluation kit (EV kit) provides a proven platform for conveniently evaluating the capabilities of the MAXQ1740 magnetic card reader security microcontroller. The EV kit includes the MAXQ1740 EV kit board, which contains a triple-track magnetic stripe reader head assembly, a level-translated DB9 RS-232 interface to the serial port, an on-board USB-to-1-Wire® loader/debugger interface using the MAXQ622 microcontroller, six GPIO-controlled pushbuttons and LED indicators for application use, and headers providing access to all I/O pins on the MAXQ1740. With the included software and a USB cable connected to a Windows® PC, the EV kit provides a complete, functional system ideal for developing and debugging applications as well as evaluating the overall capabilities of the MAXQ1740 RISC microcontroller.

EV Kit Contents

- **MAXQ1740 EV Kit Board with Either Socketed MAXQ1740 (XU1) or Soldered MAXQ1740 (U1) Populated, Along with a 12MHz Crystal or Resonator Installed in the Appropriate Location (Y2 for Socketed, Y1 for Soldered)**
- **Standard A-to-Mini-B USB Interface Cable**
- **DB9 Straight-Through Male-to-Female Serial (RS-232) Interface Cable**
- **MAXQ1740 EV Kit CD (Contains Additional Documentation, Application Notes, Utilities and Configuration Files, and Example Programs Including Source Code)**

Features

- **Easily Loads and Debugs Code Using On-Board USB-to-1-Wire Interface**
- **1-Wire Interface Provides In-Application Debugging Features**
  - ✧ **Step-by-Step Execution Tracing**
  - ✧ **Up to Four Simultaneous Hardware Breakpoints by Code Address**
  - ✧ **Data Memory or Register Content View and Edit**
- **On-Board 3.3V Voltage Regulator (Powered by 5V Input or USB)**
- **Six User-Input Pushbutton Switches with Paired Indicator LEDs (Connected to GPIO)**
- **RS-232 Interface (DB9 Connector) for MAXQ1740 Serial Port**
- **SDI (Normally Open/Normally Closed) Manual Trigger**

Ordering Information appears at end of data sheet.

Note to readers: This document is an abridged version of the full data sheet. To request the full data sheet, go to www.maximintegrated.com/MAXQ1740-KIT and click on **Request Full Data Sheet**.

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim Integrated's website at www.maximintegrated.com.

19-5946; Rev 0; 6/11

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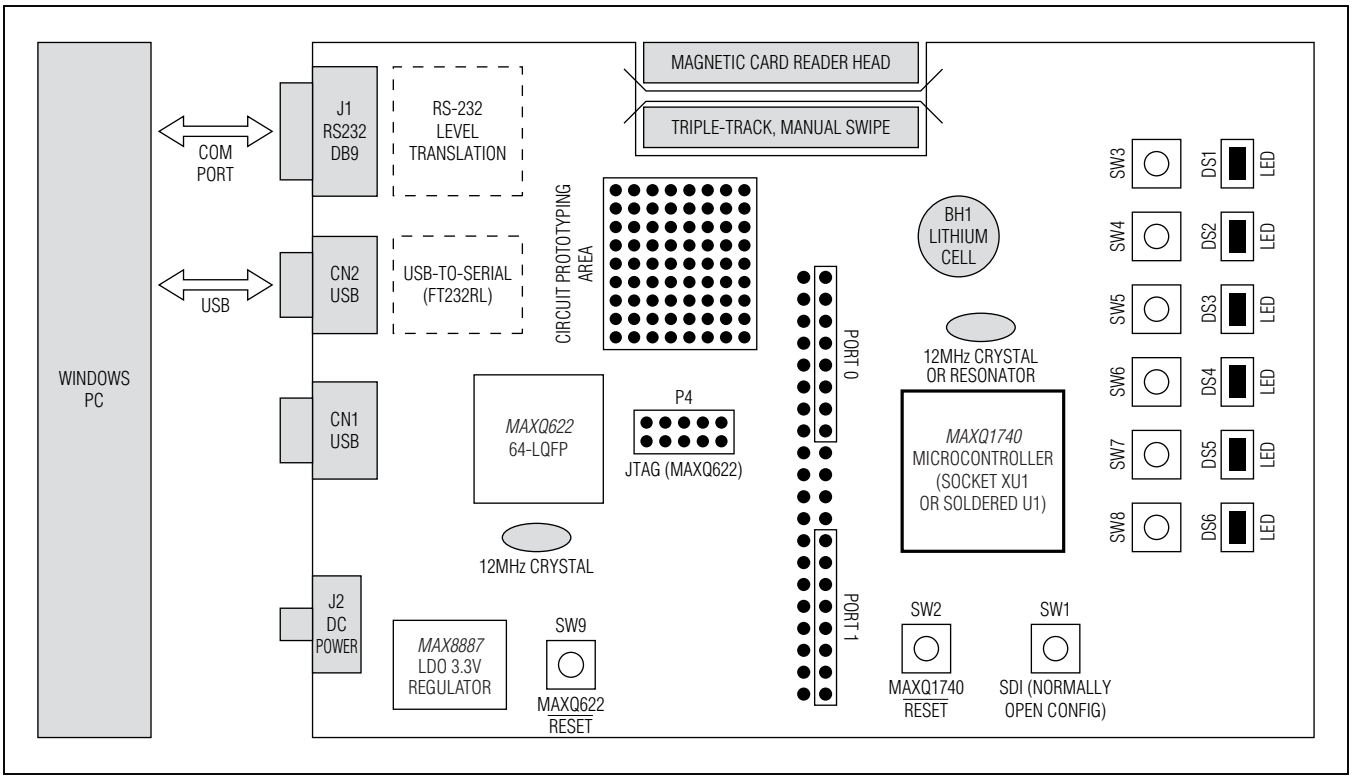

Figure 2. MAXQ1740 EV Kit Board Functional Layout

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Ordering Information

PART	TYPE
MAXQ1740-KIT#	EV Kit

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