



# MAXQ Serial-to-JTAG Evaluation Kit

## General Description

The MAXQ<sup>®</sup> serial-to-JTAG evaluation kit (EV kit) is a convenient way to evaluate the capabilities of the MAXQ serial-to-JTAG programming interface board, used to interface the JTAG port on MAXQ microcontrollers to a PC. The EV kit contains the MAXQ serial-to-JTAG board and an interface cable. With the included board and cable, the EV kit provides a completely functional system ideal for evaluating the capabilities of the MAXQ serial-to-JTAG board.

## EV Kit Contents

- ◆ MAXQSERIALJTAG Evaluation Board
- ◆ Interface Ribbon Cable

## Features

- ◆ Easily Load Code and Debug Using On-Board Serial Interface
- ◆ Serial-to-JTAG Interface Provides In-Application Debugging Features
  - Step-by-Step Execution Tracing
  - Breakpointing by Code Address, Data Memory Address, or Register Access
  - Data Memory View and Edit

## Ordering Information

PART	TYPE
MAXQSERIALJTAG-KIT	EV Kit

## Component List

DESIGNATION	QTY	DESCRIPTION
C1, C3, C4, C5, C6, C10, C11, C13, C15, C17, C18, C19	12	100nF, 10V min capacitors (0805)
C2, C9, C12, C16	4	10nF, 25V min capacitors (0805)
C7, C8	2	22pF ±10%, 10V min capacitors (0805)
C14, C20	2	3.3µF, 10V min capacitors (1206)
C21	1	47pF, 10V min capacitor (0805)
DS1	1	Red LED Lumex SML-LX23SRC or SML-LX23IC
D1	1	Diode, 1N5908 (DO-201)
D2	1	Diode, 1N5819 (SOD123)
FB1, FB2, FB3, FB4, FB5, FB7, FB8, FB9, FB10	9	Ferrite chips (0805) Steward HZ0805G471R-00
FB6	1	Ferrite chip (1206) Steward HZ1206E601R-00
F1	1	Fuse Littlefuse 0251.500M
JH1, JH2, JH3	3	Single-row 1x2 headers Molex 22-28-4020
J1	1	Connector, DB9, female Amp/Tyco 745781-4

DESIGNATION	QTY	DESCRIPTION
J2	1	Jack, coaxial, ID = 2.5mm, OD = 5.5mm, barrel length = 9.5mm CUI Inc. PJ-102B
P1	0	Do not populate
P2	1	2x5 header Molex 10-88-1101
P3	0	Do not populate
Q1	1	MOSFET, 2N7002 (SOT23)
R1, R2, R3, R4, R12	5	47Ω ±5%, 1/10W resistors (0805)
R5	1	68kΩ ±5%, 1/10W resistor (0805)
R6	0	Do not populate (0Ω resistor)
R7	0	Do not populate (3.3kΩ resistor)
R8, R9	2	47kΩ ±5%, 1/10W resistors (0805)
R10	1	820Ω ±5%, 1/10W resistor (0805)
R11, R16	2	10kΩ ±5%, 1/10W resistors (0805)
R13	1	1.0kΩ ±5%, 1/10W resistor (0805)
R14	1	3.3kΩ ±5%, 1/10W resistor (0805)
R15	1	10Ω ±5%, 1/10W resistor (0805)
U1	1	40ns, low-power, 3V/5V, rail-to-rail single-supply comparator (5 SOT23) Maxim MAX9140EUK-T
U2	1	Low-capacitance, 4-channel, ±15kV ESD-protection array for high-speed data interfaces (6 TDFN) Maxim MAX3204EETT+

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



Maxim Integrated Products 1

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim's website at [www.maxim-ic.com](http://www.maxim-ic.com).

Evaluates: Programming Interface for MAXQ Microcontrollers

# MAXQ Serial-to-JTAG Evaluation Kit

## Component List (continued)

DESIGNATION	QTY	DESCRIPTION
U3	1	Ultra-high-speed flash microcontroller (44 TQFP) Maxim DS89C430-ENL+
U4	1	±15kV ESD-protected, +5V RS-232 transceiver (20 SO) Maxim MAX203ECWP+
U5	1	High-speed, low-voltage, CMOS analog multiplexer/switch (16 TSSOP) Maxim MAX4619CUE+

DESIGNATION	QTY	DESCRIPTION
U6	1	Quad buffer with 3-state outputs 74VHC125
U7	0	Do not populate Maxim DS1086
Y1	1	7.3728MHz crystal Citizen HC49US7.3728MABJB
None	1	PCB: MAXQ Serial-to-JTAG EV Kit Board



Figure 1. MAXQSERIALJTAG Evaluation Board

# MAXQ Serial-to-JTAG Evaluation Kit

Evaluates: Programming Interface for MAXQ Microcontrollers

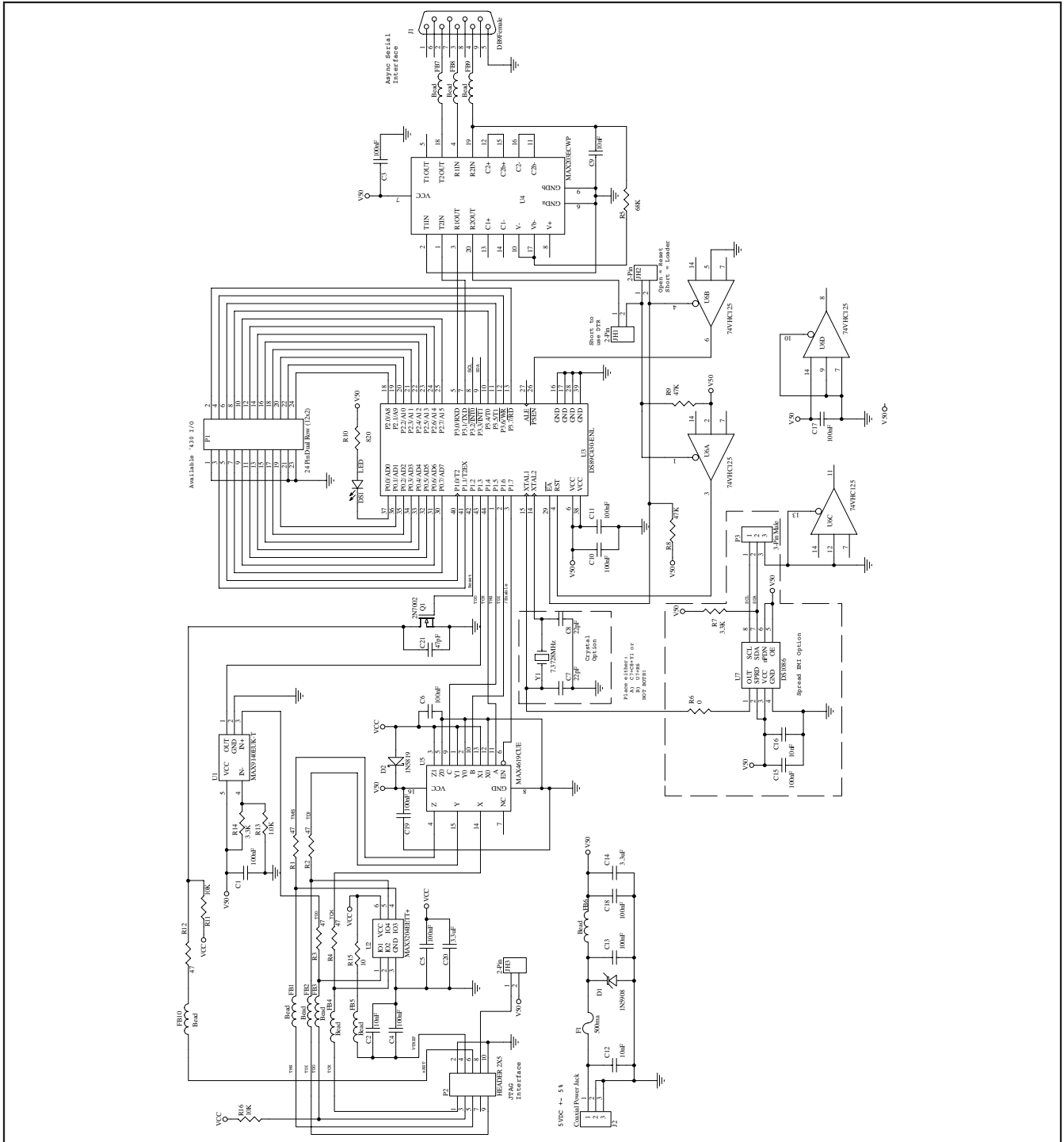


Figure 2. MAXQSERIALJTAG Schematic

Maxim cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Maxim product. No circuit patent licenses are implied. Maxim reserves the right to change the circuitry and specifications without notice at any time.