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P8X32A QuickStart Proto Board PCB (#300-40010) P8X32A QuickStart Proto Board Kit (#40010)

This through-hole prototyping add-on for the P8X32A QuickStart is available as a bare pcb (#300-40010) or as a kit that also includes mounting hardware and a stackable header (#40010).

Features

• Compatible with the P8X32A QuickStart

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- 3.42 square inches of throughhole prototyping area
- Through-hole access to all lines in the 40-pin QuickStart socket
- Additional through-hole access to all control signals and power rails
- Two mounting options
- Kit option includes mounting hardware and stackable header

Dimensions

- PCB only 2.0 x 3.0 x 0.73 in (5.0 x 7.6 x 1.8 cm)
- Assembled kit: 2.0 x 3.0 x 0.73 in (5.0 x 7.6 x 1.8 cm)

P8X32A QuickStart Proto Board Kit Packing List (#40010 only)

- P8X32A QuickStart Proto Board PCB (#300-40010)
- 40-pin stackable socket
- (6) nylon pan-head M3 screws
- (4) nylon M3 hex standoffs
- (6) nylon M3 nuts
- 2 nylon washers

Additional Items Required

- Soldering iron
- Solder
- Safety glasses

Kit Assembly Instructions

The P8X32A QuickStart Proto Board Kit can be permanently assembled to either overlap the P8X32A QuickStart or to overhang one edge. The overlapping configuration requires less space, and the overhanging configuration provides access to the LEDs, touch buttons, and reset button on the P8X32A QuickStart. Use care in selecting the appropriate configuration, as it cannot be changed after the socket is soldered.

The following instructions show steps for the overlapping configuration in the left column and steps for the overhanging configuration in the right column.



Step 2

Insert the 20-pin socket.



For the overlapping configuration, the "PARALLAX SEMICONDUCTOR" label should be visible from the top side. Insert the socket between the label and the closest edge of the board.

For the overhanging configuration, the "**P8X32A QuickStart Proto Board**" label should be visible from the top side. Insert the socket between the label and the closest edge of the board.

Step 3

Solder the 20-pin header header into place.

P8X32A QuickStart Proto Board 2	40010 Rev B 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
P8X32A QuickStart Proto Board 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40010 Rev B 2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
For the overlapping configuration, the text " P8X32A QuickStart Proto Board " should be visible from the solder side.	For the overhanging configuration, the text "PARALLAX SEMICONDUCTOR" should be visible from the solder side.

Step 4

Install the standoffs.



Step 5 Install the P8X32A QuickStart Proto Board into the P8X32A QuickStart. Image: Step 5 <t

Downloads and Resources

Check for the latest version of this document, free software, and example programs from the P8X32A QuickStart Proto Board product page. Go to www.parallax.com and search for 40010.

Pin	Definitions

Name	Туре	Function
SCL	I/O	I2C serial clock pin. Pulled to Vdd. Connected to the built-in EEPROM. Can be connected to external I2C devices. Shared with Propeller I/O pin P28.
SDA	I/O	I2C serial data pin. Pulled to Vdd. Connected to the built-in EEPROM. Can be connected to external I2C devices. Shared with Propeller I/O pin P29.
ΤХ	I/O	Propeller transmit at start-up. General purpose input/output pin after start-up. Connected to the USB to serial converter receive pin.
RX	I/O	Propeller receive at start-up. General purpose input/output pin after start-up Connected to the USB to serial converter transmit pin. Do not drive when the USB circuitry is powered.
RESn	I/O	Propeller reset pin, inverted. Pulled to Vdd. Driven low on internal reset. Drive low to externally reset the Propeller.
/USB	I/O	USB power enable pin, inverted. Pulled to USB 5 V supply. Internally driven low after successful USB power negotiation. Can be externally driven low to force the USB power input to drive the QuickStart power supply, such as when powering from a USB charger.
XI	Input	Propeller clock input. Do not load when not in use. Can drive the Propeller clock from an external signal, using the XINPUT directive.
/RTS	Output	USB to serial converter Request To Send, inverted.
/CTS	Input	USB to serial converter Clear To Send, inverted.
3.3V	Power	Propeller power supply. Internally driven to a nominal 3.3 volts with sufficient voltage on the VIN pin, or from the USB bus when /USB_PWR_EN is low. When not powered from VIN or the USB port, can be driven with 2.7 to 3.6 volts.
VIN	Power	Voltage regulator input. When not powered from 3.3 V, can be driven with 4 to 9 volts.
VSS	Power	Ground

Dimensions and Connection Diagram



(All dimensions in inches)

Additional Connections

All pins on the 40-pin QuickStart header are duplicated for through-hole soldering access. See the above diagram for pin functions. All control signals are also available along the edge of the board and include labels indicating their function.



Revision history

Version 1.0

• Original document

Version 1.1

• Fixed incorrect labeling information in "Additional Connections" section

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