

SX48 Proto Board (#45300) SX52 Proto Board (#45304)

Introduction

Parallax's new SX48/SX52 Proto Boards are a super low-cost, configurable project area for through-hole soldering or wire wrap applications. With our free SX/B compiler, free assembler and a low retail price on the SX 48/52 Proto Board, SX developers can now prototype with this microcontroller. The SX48 and SX52 are supported by the free SX BASIC (SX/B) compiler and assembler.

Features of the SX48/52 Proto Board:

- Surface-mount SX48BD or SX52BD
- LM2940 voltage regulator with heat sink provides up to 1 Amp of current; two 47 uF capacitors
- Input power supply of 6-9 VDC (2.1 mm center positive wall pack) with power LED
- SX-Key[®] programming port with TTL oscillator mechanical interlock prevents both from being used at the same (to prevent damage to the SX-Key or TTL oscillator)
- Three-position power switch (0 = off; 1 = logic power; 2 = power to logic and servo ports)
- Pushbutton reset
- Clock configurations supported with additional components sold by Parallax: TTL oscillator (DIP-8 package – clock label); ceramic resonator (SIP3 package – X1 header); Crystal (HC/49 package – X2 header)
- Smart prototype holes for servo headers: DIP and SOIC8 components
- Power and ground rails: Vin (input voltage, unregulated); Vdd (5 VDC); and Vss (ground)
- (4) ports for servo connection
- Complete access to all SX48 ports (36 I/Os) and SX52 ports (40 I/Os)
- Strain relief holes along the edges of the prototype area
- Fits on the Parallax Boe-Bot chassis

Some considerations towards efficient use of the SX48/52 Proto Board:

- 300 mil DIP components (ICs, sensors, A/Ds, shift registers, LED drivers) may be mounted over the Vdd/Vss rails on the right side of the prototype area for easy access to power and ground
- Position parts near the strain relief holes for wires leading off of the prototype board

The schematic for this product is available for download from http://www.parallax.com/detail.asp?product_id=45300.

