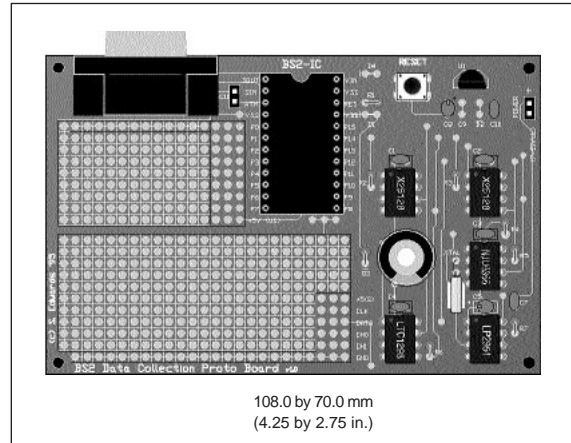


Data Collection Proto Board for BASIC Stamp® II

Up to 32kB storage memory, real-time clock, and two-channel, 12-bit ADC on a board designed to support low-power data-logging applications.



Designing a Data Logger?

The BS2 is an ideal core for a data logger, with its low power consumption, easy BASIC programming, and built-in support for serial peripherals. The Data Collection Proto Board (DCPB) is a BS2 carrier board with the most-needed data-logging peripherals:

- Support for 8, 16, or 32kB of EEPROM data storage (using X25640 or X25128 chips)
- Real-time clock/calendar (NJU6355ED) with memory-cap power backup
- Two-channel ADC with 1.22 millivolt resolution (LTC1298)
- 5-volt, 100-mA peripheral power supply with shutdown feature (LP2951)

The DCPB connects those peripherals to a serial bus, using pins P8 through P15 of the BS2. The serial clock and data lines may be used to connect additional peripherals to the BS2. Pins P0 through P7 are available for your application.

Comprehensive Documentation

To help you develop your application, the DCPB manual/disk presents a data-logging example program that exercises all of the peripherals through subroutines. You can study this example, customize it, and freely use the code in your own programs. The manual also includes a schematic of the DCPB and manufacturers' data sheets on all peripherals. You may preview the manual by visiting our web site, www.seetron.com.

Ordering Information

Note: these packages do not include the BS2 or programming materials; contact Parallax (916-624-8333 or www.parallaxinc.com).

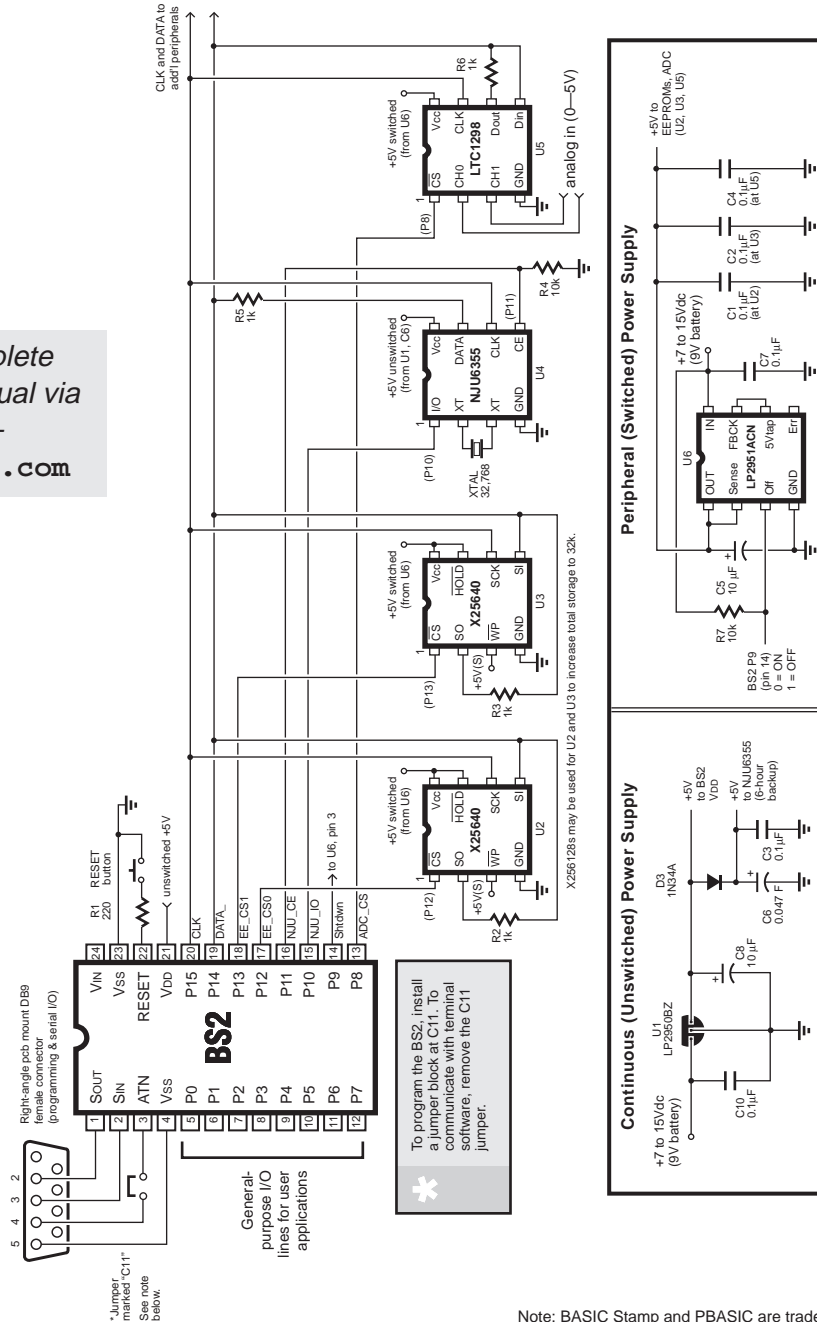
DCPB, bare board (no components) w/manual, disk (DCP-PCB-I)	49.00
DCPB, kit w/manual, disk, 0kB EEPROM (DCP-KIT-I)	79.00
DCPB, assembled w/manual, disk, 0kB EEPROM (DCP-ASD-I).....	119.00
<i>(Subtract \$20 for packages above without manual, disk; change -I to -N in part no.)</i>	
8kB EEPROM memory for above (EEP-08K)	15.00
16kB EEPROM memory for above (EEP-16K)	25.00
32kB EEPROM memory for above (EEP-32K)	45.00

Table 1. Basic specifications

Power requirements (active).....	7 to 15 Vdc @ < 10mA
Power requirements (inactive).....	7 to 15 Vdc @ < 1 mA
Power input connector	9V battery snap
Operating temperature.....	0° to 50°C (32° to 122°F)
Max sampling rate	20 samples/second
Clock backup time (0.047F cap)	6 to 24 hours
Serial I/O connector	modified BS2 programming port

Figure 1. Schematic Diagram

Preview complete instruction manual via Internet—
www.seetron.com



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