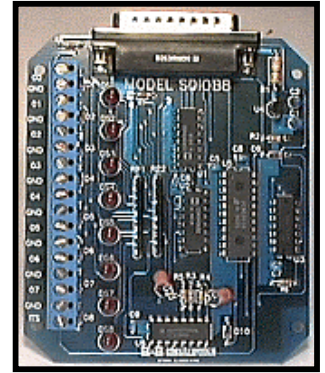


SPIO to Digital I/O Module

Model SDIOB8

The SDIOB8 plugs into B&B ELECTRONICS SPIO module to provide 8 programmable digital input/output lines. The firmware for the SDIOB8 is included in the SPIO package and can be loaded using the UPDATE program.

There are no confusing setup switches. All SDIOB8's configuration parameters are set easily via the host computer. These parameters are then stored in non-volatile memory. This means, the module's setup information is retained even when power is removed from the module. The SDIOB8 provides a setup mode that returns it to known factory defaults if the user configurations are lost.



The SDIOB8 has 8 digital I/O lines that can be defined individually by the user as inputs or as outputs. Input lines are pulled up through internal resistors. Normal inputs can be used to sense switch closures, contact closures or the state of digital signals. Normal input lines can also be used to sense AC voltages by using solid state relays that are available from many manufacturers. Input lines can be configured by the user as latches. I/O's #0,1 can be configured by the user as a software controlled event counter. I/O's #0,1 with I/O's #4,5 can be configured by the user as externally controlled event counters. Both types of event counters can count up to 540kHz.

Digital outputs are used by the host to turn on and off external devices. The outputs contain an open-collector transistor that can drive electro-mechanical relays, solid state relays, CMOS and TTL logic circuits. Output lines can be configured by the user as delayed ON/OFF outputs with a time delay range from 10ms -10.92 minutes.

This SDIOB8 has a watchdog circuit that monitors the operation of its microprocessor. If the microprocessor develops a problem the watchdog will disable all digital outputs indicating a fault.

When the SDIOB8 module initially has power applied to it, all output lines will be set to a predefined power up level. This will happen anytime the SDIOB8 experiences a power loss and power is then reapplied. This feature allows the user to define a level for each output that will leave the system in a safe operating condition at power up.

All necessary setup and monitoring programs are included with the SPIO module.

NOTE: The SDIOB8 is exclusively for use with the B&B ELECTRONICS SPIO Module!

SDIOB8 SPECIFICATIONS:

Size: 4.2"L x 3.6"W

Power Requirement: Supplied by SPIO Module.

Operating temperature: 0 to +70 degrees C.

Digital I/O: 8 lines programmable as inputs or outputs.

Digital I/O used as Input:

Input voltage: 0 to +50vdc

Internal pull up current: 2 ma

"0" input voltage: +2.5 to +50vdc

"1" input voltage: 0 to +1.5vdc

Digital I/O used as Output:

Output voltage: +50vdc max.

Output current: 350 ma max. - with only 1 output on.
100 ma max. - all outputs on.

Output leakage current: 50 ua max.

Output saturation voltage: 1.1vdc max. @100ma

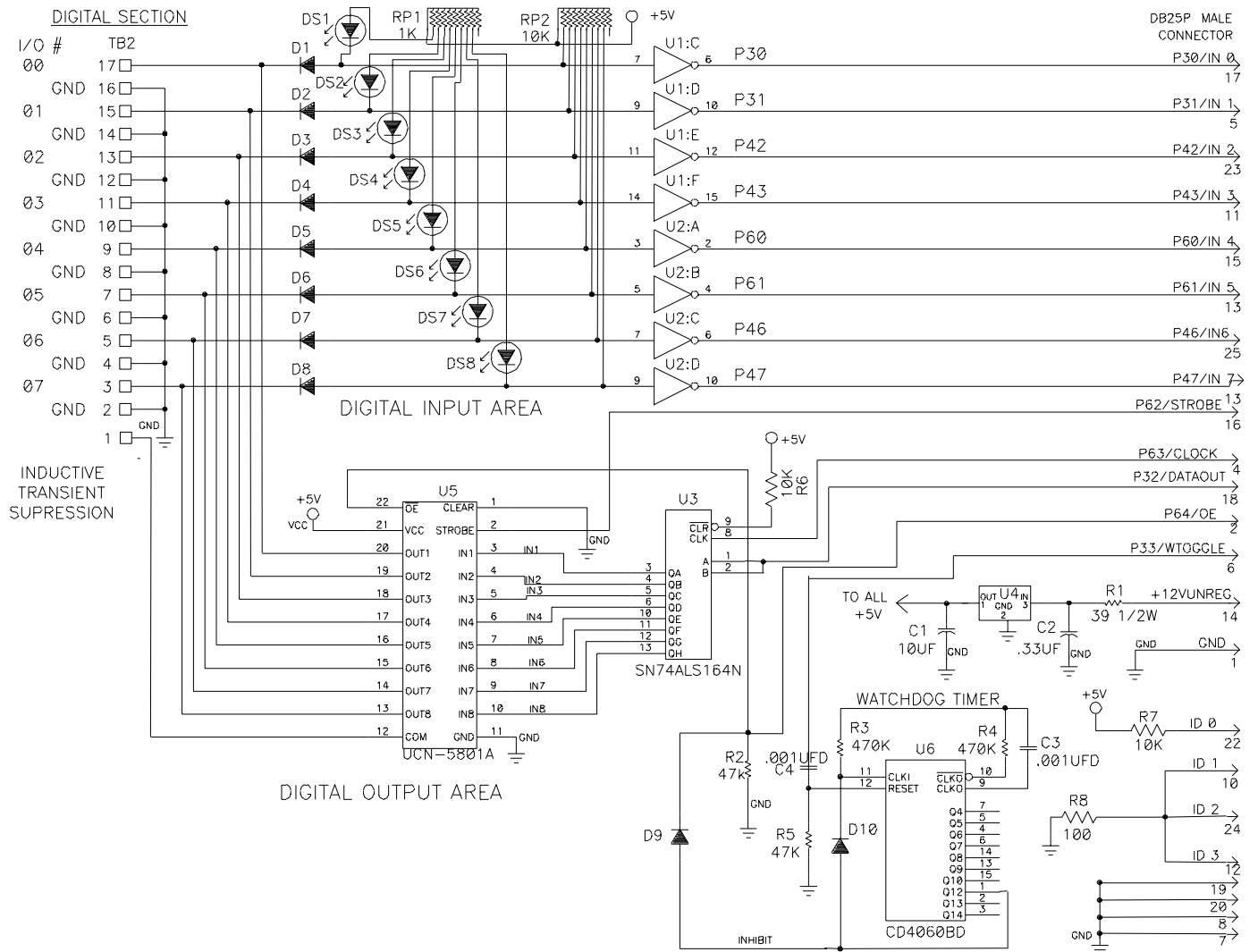
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CAUTION: Total digital output power cannot exceed 2 watts.



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