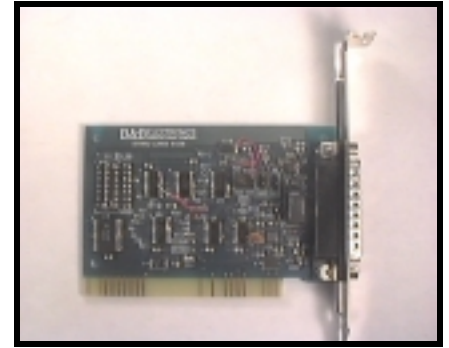


# PC Watchdog Timer Card CE

## Model PCWDT



### Introduction

B&B Electronics' PC Watchdog Timer Card, Model PCWDT, is a hardware device designed to overcome the dangers or annoyances associated with a PC "locking up." The PCWDT is periodically reset by your software or an external hardware trigger. If the watchdog doesn't receive the reset trigger within a software selectable timeout period, the PCWDT will "push" the reset button of the computer. A form C relay output is also provided to reset an external device if desired.

### Features

- Software selectable timeout period from 0.5 to 550 seconds. Range can be increased with a simple hardware modification.
- Software enable and disable.
- Form C relay output to control external device.
- Non-splicing connection to motherboard reset pins.
- Isolated timer reset input, for use as alternate trigger source.

### Specifications

Dimensions: 2.6" H x 4.1" L  
Address: Occupies 1 byte of address space, selectable from 0 to 3F8h  
Power: 250 mW maximum  
Input specs: Optically isolated input, requires 5 - 12 volts.  
50  $\mu$ s minimum pulse width  
Output specs: Form C relay, SPDT output, maximum ratings  
24 VDC at 1.0 A  
115 VAC at 0.5 A  
Connector: DB25 male

### Connections

In order for the PCWDT to reboot the host computer, a connection must be made in parallel with the reset switch to the reset pins on the motherboard. A jumper wire is provided with the PCWDT to make this connection. Note that some PCs do not include these pins on the motherboard. An additional input and output connection can be made through the DB25 connector. A form C relay output is provided for connection to an external alarm or to shut down another device. An isolated input is also provided to allow an external device to control the PCWDT.

### Operation

The PCWDT works as a countdown timer that can be programmed to start its countdown from 0.5 seconds up to 550 seconds. A simple command, such as an OUT statement in Basic, must be added to a loop in the host computers software. Every time this statement is executed, the timer is reset to its maximum value and restarts its countdown (an external hardware trigger can also perform this function). If the code quits executing for any reason, the counter will countdown until zero is reached, rebooting the host computer and energizing the output relay.

© B&B Electronics – Revised September 2001

*This product designed and manufactured in USA of domestic and imported parts by*

**B & B Electronics Mfg. Co.**

707 Dayton Road - P.O. Box 1040 - Ottawa, IL 61350 USA  
Phone: (815) 433-5100 - Fax: (815) 433-5105

Home Page: [www.bb-elec.com](http://www.bb-elec.com)

Sales e-mail: [orders@bb-elec.com](mailto:orders@bb-elec.com) - Fax: (815) 433-5109  
Technical Support e-mail: [support@bb-elec.com](mailto:support@bb-elec.com) - Fax: (815) 433-5104

**B & B Electronics Ltd**



Westlink Commercial Park - Oranmore, Co. Galway - Ireland  
Phone: +353 91 792444 - Fax: +353 91 792445

Home Page: [www.bb-europe.com](http://www.bb-europe.com)

Sales e-mail: [orders@bb-europe.com](mailto:orders@bb-europe.com)  
Technical Support e-mail: [support@bb-europe.com](mailto:support@bb-europe.com)

### B&B's Watchdog Family Selection Guide

Model	Bus	Timeout Register	Operating System	Output Relay Connector	Reboot Connector
ATRWDT	ISA	4-bit, read-write, 1-bit reset flag	DOS, Win 9x, Windows NT	DB9 Male	Motherboard reset pins
ATXWDT	ISA	4-bit, read-write	DOS, Win 9x, Windows NT	DB9 Male	ATX Power Supply Connector
PCWDT	ISA	4-bit, write only	DOS, Win 9x, Windows NT	DB25 Male	Motherboard reset pins
PCIRWDT	PCI	4-bit, read-write, 1-bit reset flag	Windows 98/2000/ME/NT	DB9 Male	Motherboard reset pins
PCIXWDT	PCI	4-bit, read-write	Windows 98/2000/ME/NT	DB9 Male	ATX Power Supply Connector

DECLARATION OF CONFORMITY	
Manufacturer's Name:	B&B Electronics Manufacturing Company
Manufacturer's Address:	P.O. Box 1040 707 Dayton Road Ottawa, IL 61350 USA
Model Numbers:	PCWDT
Description:	PC Watchdog Timer Card
Type:	Light industrial ITE equipment
Application of Council Directive:	89/336/EEC
Standards:	EN 50082-1:1998 EN 50082-1:1992 IEC 801 (-2, -3, -4) EN 61000 (-4-2, -4-3, -4-4, -4-6)
 	
Michael J. Fahrion, Director of Engineering	

© B&B Electronics – Revised September 2001

*This product designed and manufactured in USA of domestic and imported parts by*

**B & B Electronics Mfg. Co.**

707 Dayton Road - P.O. Box 1040 - Ottawa, IL 61350 USA

Phone: (815) 433-5100 - Fax: (815) 433-5105

Home Page: [www.bb-elec.com](http://www.bb-elec.com)

Sales e-mail: [orders@bb-elec.com](mailto:orders@bb-elec.com) - Fax: (815) 433-5109

Technical Support e-mail: [support@bb-elec.com](mailto:support@bb-elec.com) - Fax: (815) 433-5104

**B & B Electronics Ltd**

Westlink Commercial Park - Oranmore, Co. Galway - Ireland

Phone: +353 91 792444 - Fax: +353 91 792445

Home Page: [www.bb-europe.com](http://www.bb-europe.com)

Sales e-mail: [orders@bb-europe.com](mailto:orders@bb-europe.com)

Technical Support e-mail: [support@bb-europe.com](mailto:support@bb-europe.com)