

Watchdog Boards

WDT-01 / WDT-02

Intelligent watchdog timer card



WDT-01



WDT-02

Functional Description

The WDT-01/WDT-02 are watchdog cards that provide watchdog timer, temperature monitor and power monitor functions.

They also provide many signals and mechanism such as relay control, reset signal, power-good signal that allow the user to control their system as soon as the errors are occurred. There are also many signals available, such as IRQ, I/O status RS-232, LED, Buzzer, to tell the user or operator that some errors are occurred. Once the WDT-01 has been power on, it will monitor the power and the temperature of PC automatically. After the software enable the watchdog timer, the WDT-01 will monitor the operations of software and hardware in the most inexpensive cost with the excellent protections. The WDT-02 is an economical version of WDT-01.

Applications

WDT-01/WDT-02 provide WDT utility software for Windows to monitor system status. When system is damaged, WDT-01/WDT-02 could alarm by digital output; and when system is frozen, WDT-01/WDT-02 could reset system automatically. WDT utility program executes when windows start and is resident in system tray. In NT system WDT utility event could logon into administrator account automatically when Windows NT is restarted. WDT utility takes very few system resources but could monitor most of the system information like voltage, temperature, fan speed and crash.

Specifications

Analog Input

- Watchdog timer: Software programmable from 0.01 second to 167772.15 seconds
- Computer power monitor: PC Power +5V, External Power +12V
- RS-232 output: speed: 9600, 4800, 2400 or 1200bps

Features

- Don't have to modify the original program
- Can be used in ISA bus and print port interface
- Harsh environment detection and warning before system crash
- Cost effective solution

- Printer-like I/O interface: LPT0(3bch), LPT1(378h), LPT(278h) or user-defined ports
- Terminal board has a power failure LED display
- IRQ:3,4,5,6,7,9,10,11,12,14,15
- 4-bit TTL output:
 - logic high: 2.4Vdc min, source 400 uA
 - logic low: 0.5Vdc max, sink-10 mA
- Two Relay for watchdog or temperature failure:
 - Contacts: FORM c.
 - Max switched current: 1A 30V/dc
 - Max switched voltage: 120VAC/60VDC
 - Max carry current: 1.25AC/DC

General Specifications

- Power required:
 - (a) External power: +12V, 3W or
 - (b) Internal power: +12V, 3W
- Operating temperature: 0 ~ 60°C
- Dimensions: 170 mm x 110 mm

Output Signals:

Signal/Function	WDT Timeout	Over Temperature	Power Failure
Reset	Yes	No	No
IRQ	Yes	Yes	No
I/O status	Yes	Yes	Yes
RELAY	Yes	Yes	No
TTL	Yes	Yes	No
LED	Yes	Yes	Yes
RS-232	Yes	Yes	Yes
Buzzer	Yes	Yes	Yes

Ordering Information

Standard

WDT-01: Intelligent watchdog timer card with terminal board and 1 meter cable

WDT-02: Intelligent watchdog timer card without terminal board, cable, buzzer relay, LED, temperature sensor

Optional

CA-0205: 2-pin black & red cable, 0.5m

CA-2520: 25-pin Male-Male D-sub flat cable, 2m