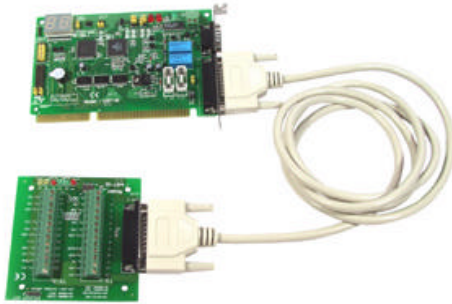




WDT-01/WDT-02

Intelligent Watchdog Timer Card



Functional Description

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

It also provides 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, such as IRQ, I/O status RS-232, LED, Buzzer, will tell the user or operator that 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. Refer to the following comparison table.

Specifications

Watchdog timer:

Software programmable from 0.01 second to 167772.15 seconds.

Temperature monitor:

Temperature: 0°C-75°C;
Precision: ±1°C; on-board 2 digital LED display; Warning temperature
Setting: 50°C, 60°C, 70°C or none.

Computer power monitor:

PC Power +5V, External Power +12V

RS-232 output:

speed: 9600, 4800, 2400 or 1200bps

transmit message includes:

watchdog timer state, Temperature status, Current Temperature scale, External & PC power status...etc.

Power required:

1. External power: +12V, 3W or

2. Internal power: +12V, 3W

Printer-like I/O interface:

LPT0(3bch), LPT1(378h), LPT(278h) or User Define, only need 3 I/O ports

Output Signals:

Signal/Function	WDT timeout	Over Temperature	Power failure
Reset	Yes		
IRQ	Yes	Yes	
I/O status	Yes	Yes	Yes
RELAY	Yes	Yes	
TTL	Yes	Yes	
LED	Yes	Yes	Yes
ES232	Yes	Yes	Yes
Buzzer	Yes	Yes	Yes

WDT ↔ Watchdog

power failure LED display only on terminal board.

IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15

4 BIT TTL output:

logic high: 2.4VDC min, source 400uA.

logic low: 0.5VDC max, sink-10mA

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

Output Signals:

	WDT-01	WDT-02
Software driver	Yes	Yes
on-board 7-seg LED	Yes	No
Temperature measurement	Yes	No
on board buzzer	Yes	No
Relay output for watchdog alarm	Yes	No
Relay output for temperature alarm	Yes	No
Terminal board	Yes	No
Other	Yes	Yes

Program Example:

WDT-01 is assigned to LPT2(278) I/O address.

<CR> means Hexcode 0d

The content of **Set.da** files: t=4<CR>s<CR>

The content of **End.da** files: <CR>e<CR>

<DOS command>

type Set.da>1pt2

(set the period of the watchdog timeout, and start counting)

type End.da>1pt2(stop watchdog counting)

Please note: If with DOS command

Copy con LPT2

the DOS will send<CR><LF> after press ENTER key.

WDT-01 will not accept<LF>code.

Software

support DOS, Windows driver

Ordering Information

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