WDT-03
Intelligent Watchdog Timer Card

Introduction

It's a fact that the PC hardware and software may fail. To prevent the failure,many differnet solutions are proposed. However, none of these solutions offer a 100% assurance. Since it's hard to prevent the failure, to detect the failure becomes more and more important. The WDT-03 is used to detect the failure of the software and hardware. It can be used to reduce the risk of PC failure. The WDT-03 is useful even for those systems with built-in watchdog circuit.

The WDT-03 equips two RS-232 ports, one is master port and another one is slave port. The master RS-232 port is designed to communicate with the local host-PC. The local host-PC can enable/disable/refresh/read-back the watchdog timer through the master RS-232 port. The slave RS-232 is used to send information to the remote Host-PC for monitoring. SO the remote HOST will get information immediately if the local host-PC has any software or hardware problem, even the power is failure

Features

- Don't have to modify the original program
- Can be used in ISA bus, PCI bus & any system with RS-232 interface
- Harsh environment detection & warning before system crash
- Cost Effective Solution

Specifications

- O.S./Bus/mounting independent
- OEM/ODM acceptable
- Watchdog timer
  Software enable/disable watchdog timer
  Form 0.03 second to 1966.05 seconds
- **Bus Voltage monitoring :** 3.3V , 5V , 12V , -5V , -12V
- **Fan Speed monitoring :** 3 channels
- **Temperature monitoring :** 3 channels
- **EEPROM**
  63 bytes for user read/write
  read/write cycles : 100,000 times

Mounting

ISA/PCI bus for PC
Four through-hole mountiong for any system with RS-232 interface

- **Demensions :** 140mm x 70mm
- **Power Consumption :** 2W
  Operating Temperature : 0℃ ~ 60℃
  Storage Temperature : -20℃ ~ 70℃
- **Software :** Support DOS, 95/98/Me/2000/Nt driver

Pin Assignment

CN1 : to Local Host-PC
CN2 : to Remote-Host & D/I/O

CN1 : DB9,Male		CN2 : DB9,Female	
Pin Number	Signal name	Pin Number	Signal name
1	N/C	1	D/I-3 , 3.5V~30V
2	TXD,RS-232 output	2	TXD,RS-232 output
3	RXD,RS-232 input	3	Power of D/O, 30V max.
4	N/C	4	D/O-2, 100mA, 30V
5	GND	5	GND
6	N/C	6	D/I-2, 3.5V~30V
7	N/C	7	D/I-1, 3.5V~30V
8	N/C	8	D/O-1, 100mA,30V
9	N/C	9	D/O-3, 100mA,30V

Product List

- one piece of WDT-03 card
- one cable, CA-0910F, for linking to local host-PC
- one reset-wire for JP1
- two temperature sensors with wire for external T1 & T2
- one piece of compansion CD for software
- one piece of release note

Software

- Toolkit for Windows DOS
- Toolkit for Windows 95/98
- Toolkit for Windows NT
- Toolkit for Windows 2000/XP
- Driver for LINUX
- Driver for JAVA

Option

- DB-3R : Daughter Board for WDT-03

- **Interface**

  RS-232 x 1 for local CPU
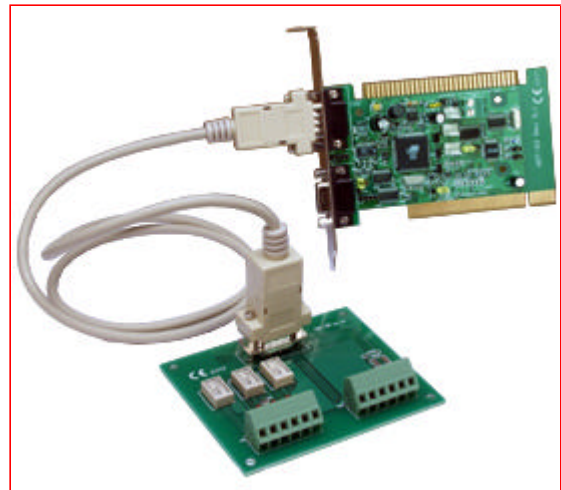 RS232 X1 for remote HOST(monitor the local CPU)
- **RS-232**

  Baud rate : 2.4K/4.8K/9.6K/19.2K/38.4K/57.6K/115.2K
  BPS Programable
  Data format : N81
  Command format : the 7000 family compatible
- **Reset Mechanism**

  Power good signal for PC system
  Reset signal to simulate external reset-key pressed

- CA-0205 : 2-pin Black & Red cable,0.5m
- CA-0910F : 9-pin Female -Female D-sub cable,1m

WDT-03 & DB-3R

Ordering Information

WDT-03	Intelligent Watchdog Timer card
	Include :CA-0205(2-pin Black & Red Cable 0.5m)
	CA-0910F(9-pin Female -Female D-sub Cable 1.0m)
DB-3R	Daughter Board for WDT-03