

WDT-03

Intelligent Watchdog Timer Card



Introduction

It's a fact that the PC hardware and software may fail. To prevent the failure, many different 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

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
Mounting

ISA/PCI bus for PC

Four through-hole mounting for any system with RS-232 interface

Demensions : 140mm x 70mm

Power Consumption : 2W

Operating Temperature : 0°C ~ 60°C

Storage Temperature : -20°C ~ 70°C

Software : Support DOS, 95/98/Me/2000/Nt driver

Pin Assignment

CN1 : to Local Host-PC

CN2 : to Remote-Host & D/I/OCN1 : 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

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