

Model: UT-734

(Product Name: PCI to 4-port RS-485 high-speed serial card)

Datasheet

1. Overview

UT-734 PCI converter card, compatible with RS-485 standard, can convert single-ended PCI signal to balanced differential RS-485 signal, with fast transient voltage suppressor protector, this protector is designed to protect RS-485 interface, adopt TVS (TRANSIENT VOLTAGE SUPPRESSOR) transient voltage suppressor, Under normal conditions, the TVS tube is in a high resistance state. When the two ends of the TVS tube are subjected to an instantaneous high-voltage shock, it can reduce the impedance at both ends at a very high rate and absorb a large current, thus clamping the voltage at both ends at a predetermined value and protecting the circuit components from damage due to transient high-voltage shock. This protector effectively suppresses lightning (LIGHTNING) and ESD, provides 600W of lightning surge protection power per line, as well as surge voltages and transient over-voltages generated by various causes on the line, and the extremely small inter-pole capacitance ensures high-speed transmission over the RS-485 interface.

2. Major Functions & Features

- Supports 4-port RS-485 PCI multi-serial card converter

3. Technical Parameters

- Hardware Interface
 - Connection Type: 1 DR44 Female
 - BUS: 32 bit Universal PCI
- Signal: RS-485: Data+(A) Data-(B) GND
- Transmission rate: 300bps-921.6kbps
- Data bits: 5, 6, 7, 8
- Stop bits: 1, 1.5, 2
- Parity bits: None, Even, odd, Space, Mark
- Stream control: RTS/CTS XON/XOFF
- Operating temperature: -40~85°C
- Interface protection: RS-485 interface surge protection of 600W per line, $\pm 15K$ V electrostatic protection
- Transmission distance: RS-485 communication distance up to 1.2Km
- Support system: Win2000/ 2003/ XP/ Vista/ 2003_ Server/ NT4.0/ CE 4.2/ 5.0/ 6.0/ Vxworks/ Linux 2.4.x/ 2.6.x

4. Hardware Definition and Initial Setup

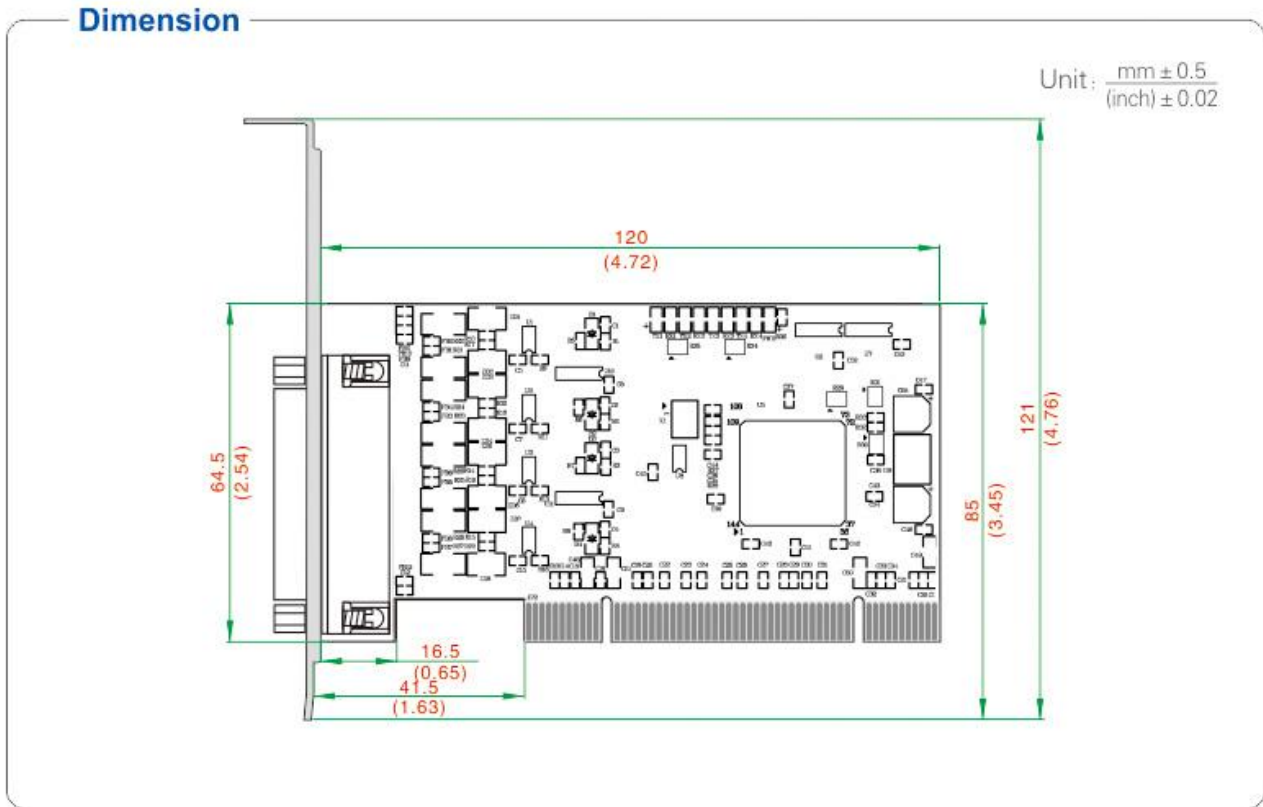
DB9 pin type: RS-485 output signal pin assignment (Port1-Port4)

DB9 Male(PIN)	Output signal	RS-485 Half-duplex
1	T/R+	RS-485(A+)
2	T/R-	RS-485(B-)
3	N/C	-
4	N/C	-
5	GND	GND
6	N/C	-
7	N/C	-
8	N/C	-
9	N/C	-

5. Product View (Appearance)



6. Structure dimensions



7. Ordering

Ordering

Model	Signal/ Interface		Port number		Protection level	Baud rate	Operating Environment			Power	
	PCI	RS-485	PCI	RS-485			Temperature		Humidity	plug and play	External power
					-25~70°C		-40~85°C	5~95%			
UT-734	Universal	DR 44	1	4	± 15KV ESD 600W Surge	300bps-921.6k bps		√	√	√	