

Model: UT-728

(Product Name: PCI to 8-port RS-485/422 high-speed serial card)

Datasheet

1. Overview

The UT-728 PCI converter card, compatible with RS-422 and RS-485 standards, is capable of converting single-ended PCI signals to balanced differential RS-422/RS-485 signals with a fast transient voltage suppressor protector, which is designed to protect RS-422/RS-485 interfaces with today's advanced TVS (TRANSIENT 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-energy 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 behind from damage due to transient high-voltage shock. This protector can effectively suppress lightning (LIGHTNING) and ESD, providing 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 of the RS-422/RS-485 interface.

2. Major Functions & Features

- Supports 8-port RS-485/422 PCI multi-serial card converter

3. Technical Parameters

- Hardware Interface
 - Connection Type: 1 DR62 Female
 - BUS: 32 bit Universal PCI
- Signal
 - RS-422: T/R+, T/R-, RXD+, RXD-, GND
 - 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-422, RS-485 interface surge protection of 600W per line, $\pm 15\text{K V}$ electrostatic protection
- Transmission distance: RS-485/422 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

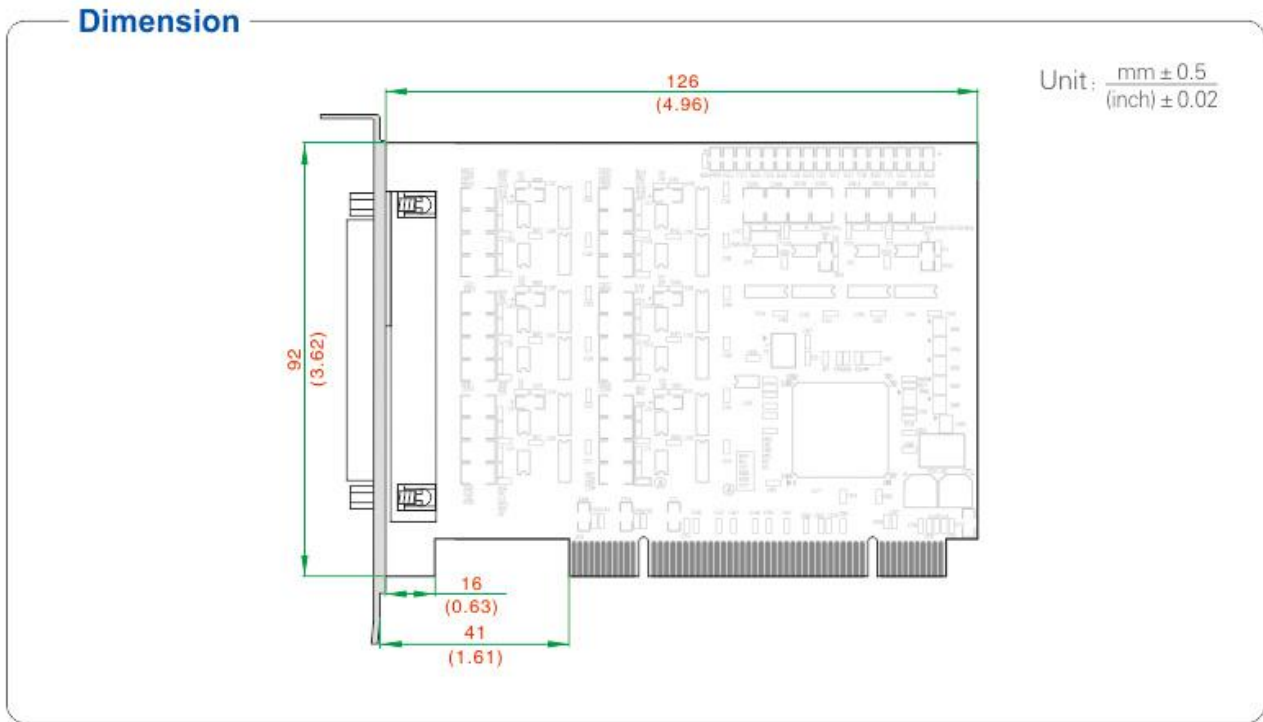
DB9 pin type: RS-485/RS-422 output signal pin assignment (Port1-Port8)

DB9 Male(PIN)	Output signal	RS-422 Full-duplex	RS-485 Half-duplex
1	T/R+	Transmitting(A+)	RS-485(A+)
2	T/R-	Transmitting(B-)	RS-485(B-)
3	RXD+	Receive(A+)	-
4	RXD-	Receive(B-)	-
5	GND	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-485/422	PCI	RS-485/422	RS-485/422		Temperature		Humidity	plug and play	External power
							-25~70°C	-40~85°C	5~95%		
UT-728	Universal	DR 62	1	8	± 15KV ESD 600W Surge	300bps-921.6 kbps		√	√	√	