

Model: UT-728

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

# **Datasheet**



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#### 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, 8Stop 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,  $\pm$ 15K 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)

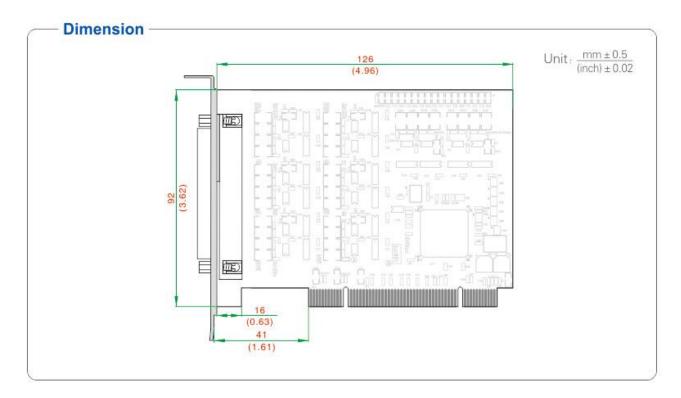
DB9 Male(PIN)	Output signal	RS-422 Full-duplex	RS-485 Half-duplex		
1	T/R+	Transmitting(A+)	RS-485(A+)		
2	T/R-	Transmitting(B-)	RS-485(B-)		
3	RXD+	Receive(A+)	-		
4	RXD-	Receive(B-)	-		
5	GND	GND	GND		
6	N/C	-	-		
7	N/C	-	-		
8	N/C	-	-		
9	N/C	-	-		

### **5. Product View (Appearance)**





#### 6. Structure dimensions



## 7. Ordering

### Ordering

Model	Signal/Interface				Protection level	Baud rate	Operating Environment				
	PCI	RS-485/422	Port number				Temperature		Humidity	Power	
			PCI	RS-485/422	RS-485/422	Janua Tute	-25~70°C	-40~85°C	5~95%	plug and play	Externa I power
UT-728	Universal	DR 62	1	8	$\pm$ 15KV ESD 600W Surge	300bps-921.6 kbps		٧	٧	٧	