Model: UT-794

(Product Name：PCI-E to 4 Ports RS-485/422 Serial Adapter)

Datasheet

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1. Overview

UT-794 industrial PCI-E multiport serial adapter is compatible with RS-422/485 standard, it converts PCI-E signal to balanced differential RS-422/485 signal. With built-in optoelectronic isolator and transient voltage suppression protector, it is designed to protect RS-422/485 ports; it adopts advanced TVS (TRANSIENT VOLTAGE SUPPERSSOR). In normal situation, TVS tube is in high impedance state; when both ends of TVS tube are impacted by high power instantly, it lowers the impedance with super high speed, and soaks high current, so as to limit the voltage from both ends in a pre-value, and protect the circuit components from damage by high voltage impact. This protector is with lightning and ESD protection, provides 2,000V each wire with lightning surge protection, and surge voltage and transient overvoltage protection on circuit which causing by all reasons; the tiny inter-electrode capacitance ensures high speed transmission for RS-422/485 ports.

2. Major Functions & Features

- Supports PCI-E to 4 Ports RS-485/422 serial adapter
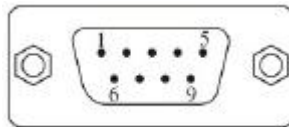
3. Technical Parameters

- Connector: DR44 x 1
- BUS: X1 2.5Gbps PCI Express
- Signal

    RS-422: T/R+, T/R-, RXD+, RXD-, GND

    RS-485: Data+(A)   Data-(B) GND
- Baud rate: 300bps-921.6Kbps
- Digit bit: 5, 6, 7, 8
- Stop bit: 1, 1.5, 2
- Check bit: None, Even, odd, Space, Mark
- Flow control: RTS/CTS   XON/XOFF
- Dimension: 120mm×107mm
- Operating temperature: -40℃ to 85℃
- Isolation: 2.5KVrms/500VDC enhanced isolation, special DC/DC module
- Port protection: RS-422/485 each line 600W surge protection, ±15KV ESD protection
- Transmission distance: RS-485/422 1.2Km
- Supports Win10/Win2000/XP/Vista/Win7/8/8.1/NT4.0/CE 4.2/5.0/6.0/Vxworks/Linux 2.4.x/2.6.x

4. Interface Definition

RS-232C pin assignment

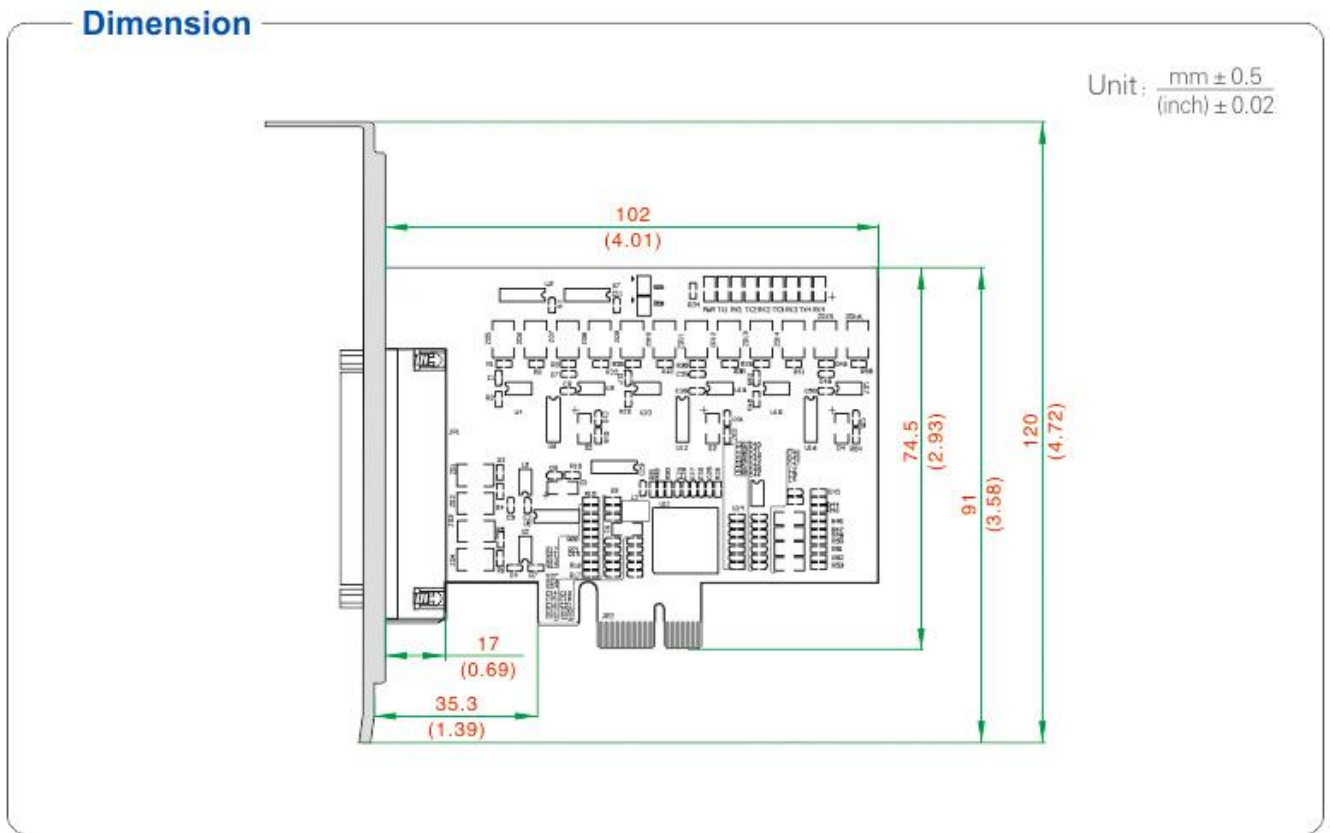| DB9 Female(PIN)	Output signal	RS-422 Full-duplex	RS-485 Half-duplex
1	T/R+	Sending(A+)	RS-485(A+)
2	T/R-	Sending(B-)	RS-485(B-)
3	RXD+	Receive(A+)	-
4	RXD-	Receive(B-)	-
5	GND	GND	GND
6	N/C	-	-
7	N/C	-	-
8	N/C	-	-
9	N/C	-	-

DB9 Female

5. Product View (Appearance)

6. Structure dimensions

7. Ordering

Model	Signal/Port		Port qty		Protection	Baudrate	Environment			Power	
	PCI-E	RS-485/422	PCI-E	RS-485/422	RS-485/422		Temperature		Humidity	Port-Powered	External Power
							-25/70℃	-40/85℃	5~95%		
UT-794	Universal	✓	1	4	±15KV ESD	300bps~921.6kbps		✓	✓	✓	

Accessaries: Cable/terminal block