Model: UT-792i

(Product Name：PCI-E to 2 Ports RS-485/422 High Speed Serial Adapter with

Isolation)

Datasheet

1. Overview

UT-792i 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 instant voltage control 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 2 Ports RS-485/422 high speed serial adapter with isolation
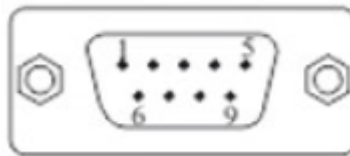
3. Technical Parameters

- Connector: HDR78 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
- 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-485/RS-422 output signal pin assignment

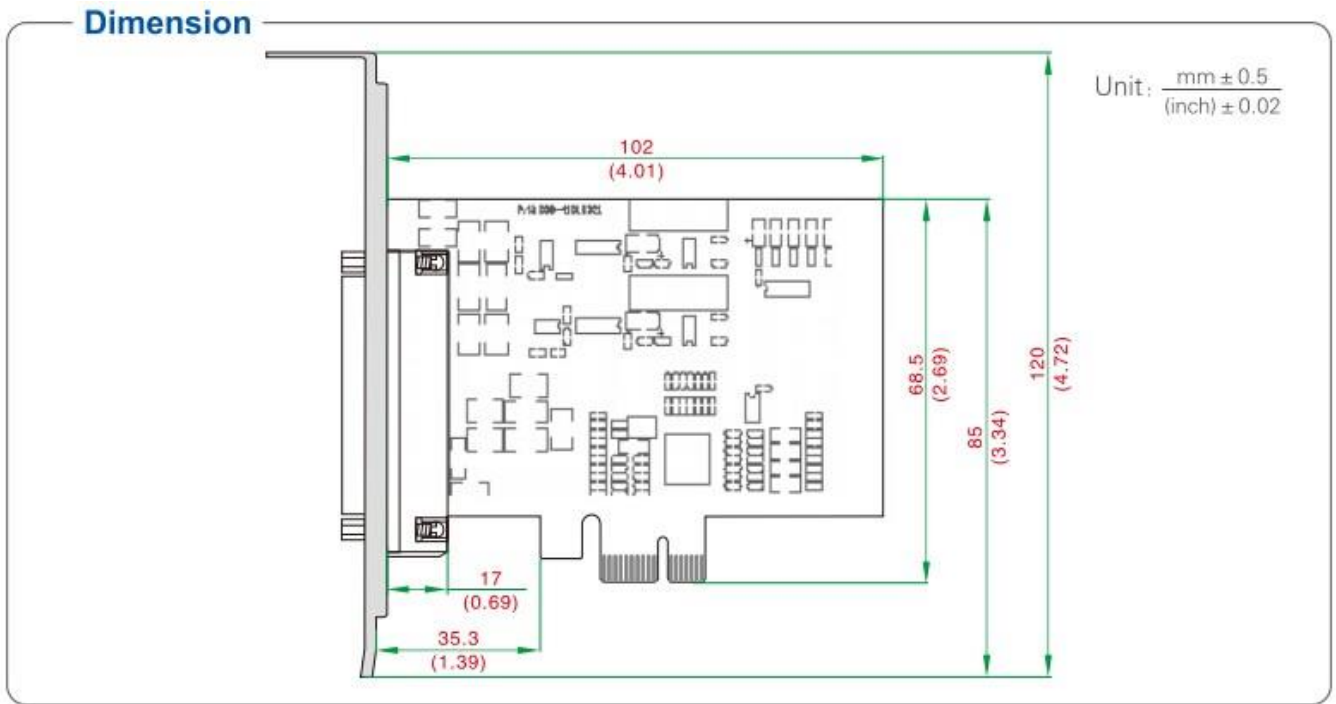| DB9 Male(PIN)	Output signal	RS-422 Full-duplex	RS-485 Half-duplex
1	T/R+	Sending(A+)	RS-485(A+)
2	T/R-	Sending(B-)	RS-485(B-)
3	RXD+	Receive(A+)	-
4	RXD-	Receive(B-)	-
5	GND	GND	GND
6	N/C	-	-
7	N/C	-	-
8	N/C	-	-
9	N/C	-	-

DB9 Male

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		
							-25/70℃	-40/85℃	5-95%	Port-Powered	External Power
UT-792	Universal	✓	1	2	± 15KV ESD	300bps~921.6kbps		✓	✓	✓	
UT-792i	Universal	✓	1	2	± 15KV ESD 2KV Lightning protection	300bps~921.6kbps		✓	✓	✓	