

Model: UT-724i

(Product Name: PCI to 4 Ports RS-485/422 High Speed Serial Adapter with
Isolation)

Datasheet



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1. Overview

UT-724i PCI multiport serial adapter with optoelectronic isolation is compatible with RS-422/485 standard; it converts PCI signal to balanced differential RS-422/485 signal. With built-in optoelectronic isolator, it provides as high as 2,500Vrms isolated voltage. The built-in transient voltage suppression protector is designed to protect RS-422/485 ports; it adopts advanced TVS (TRANSIENT VOLTAGE SUPPRESSOR). 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: 32 bits universal PCI
- 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
- Operating temperature: -40 °C to 85 °C
- Isolation: 2.5KVrms/500VDC enhanced isolation, special DC/DC module
- Port protection: RS-422 & RS-485 provides with 600W surge, ±15KV ESD protection each line
- Transmission distance: RS-485/422 1.2Km
- Supports Win2000/2003/XP/Vista/7/8/8.1/NT4.0/CE 4.2/5.0/6.0/Vxworks/Linux 2.4.x/2.6.x

4. Hardware Definition and Initial Setup

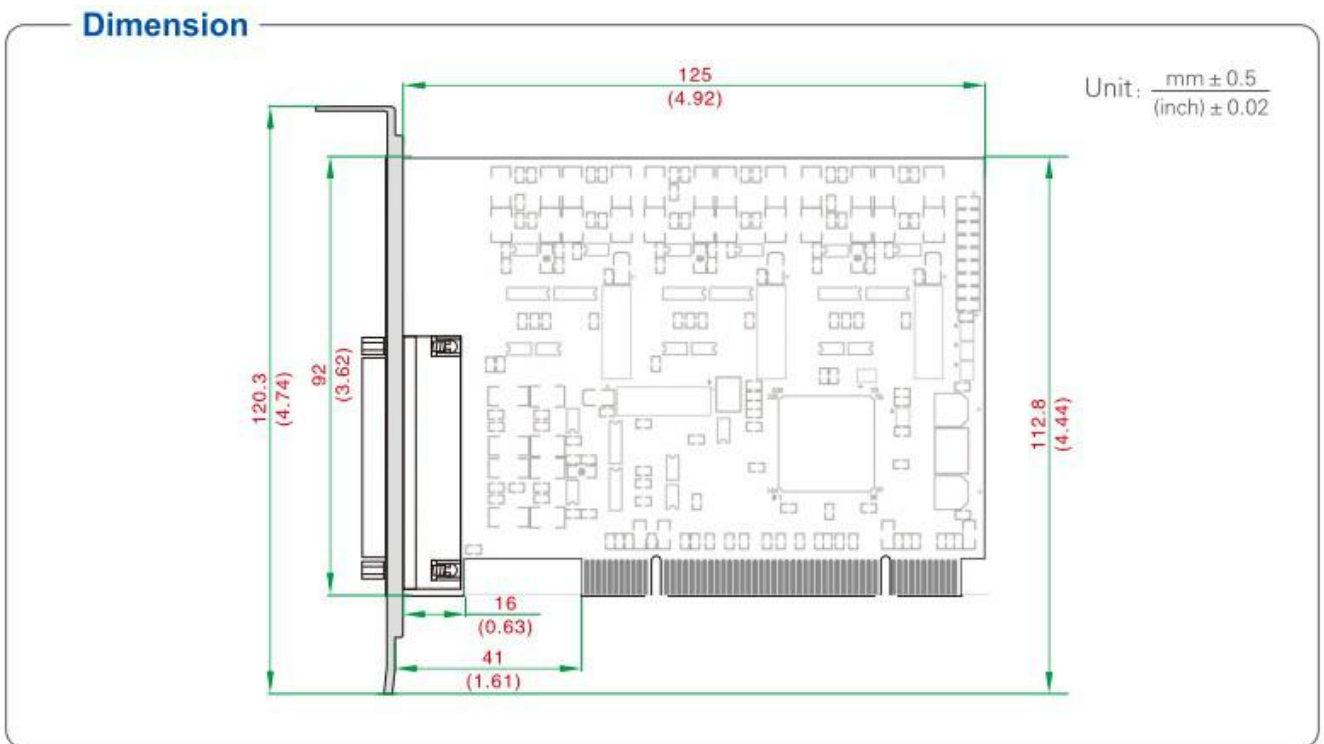
RS-485/RS-422 output signal pin assignment

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	-	-

5. Product View (Appearance)



6. Structure dimensions



7. Ordering

Ordering

Model	Signal/Port		Port qty		Protection	Baudrate	Environment		Power	
	PCI	RS-485/422	PCI	RS-485/422	RS-485/422		Temperature	Humidity	Port-Powered	External Power
							-25/70°C	-40/85°C		
UT-724i	Universal	DR44	1	4	±15KV ESD 2KV Surge	300bps-921.6Kbps		✓	✓	✓