



UTD7009P
USB to RS-422/485 HUB



■ Introduction

Sunix's UTD7009P is an USB to RS-422/485 hub which offers user seven serial port connections. The ports have a data transfer rate up to 115 Kbps. Users are able to connect four serial devices through the hub to the USB port on their system. The hub supports wake on line and power management function. It has dual data buffers for upstream and downstream data flow.

■ Features

- Expand 1~7 ports of RS-422/485 through USB connection
- Compatible with USB 2.0 & 1.1 with full speed up to 12Mbps
- WHQL Certification Approval by Microsoft
- Support Plug-n-play and Hot Swappable
- No I/O Address or IRQ configuration required
- RS-422/485 high speed transfer up to 115.2Kbps
- Support BUS power and external DC power
- On chip hardware flow control
- RS-485 with ARSCTM technology (Auto RTS Signal Control)
RTS+/-, CTS+/- pins for RS-422/485
- Auto Identify and Switch for RS-422/485

■ Specifications

■ Function

TYPE	Sunix USB to Serial Communication HUB
Mode of Operation	Differential
Bus Transceivers	RS-422 Full-Duplex RS-485 Half-Duplex
Drivers per Line	RS-422 1 Driver RS-485 32 Driver
Receivers per Line	RS-422 10 Receivers RS-485 32 Receivers

■Hardware

IC	Prolific 2303HX
Controller	SUNIX UART (16C550 compatible)
No. of Ports	7,4,2 ports
Connector	DB62F/DB9M/MiniBlock
Bus Interface	Universal Serial Bus (USB)
Dimension (WxDxH)	180 x 70 x 26 mm
Power	DC power 2

■Communication

IRQ & I/O address	Assigned by BIOS
FIFO	16 byte hardware FIFO
RS-422 Signal Control	SUNIX ARSCTM technology
Select RS-422/485	Auto identify & Switch RS-422/485 technology
Baud Rate	115Kbps
Data bit	5,6,7,8
Stop bit	1, 1.5, 2
Parity	even, odd, none, mark, space
Flow Control	None, Xon/Xoff, Hardware
RS-422 Singal	TxD+/-, RxD+/-, RTS+/-, CTS+/-, GND
RS-485 Singal	Data+/-, TxD+/-, RxD+/-, GND

■Regulator approvals

Hardware	CE, FCC
Software	WHQL

■Driver support

Microsoft	Windows 9x, 2000, XP, 2003
Linux	2.0x / 2.2x / 2.4x

■Operation Environment

Operation Temperature	0°C ~ 57 °C
Operation Humidity	5 ~ 95% RH
Storage temperature	-20°C ~ 85°C

■Package content

Hardware	SunixUSB to Serial HUB Switch Adapter (Optional)
Cable	DB62M to 8/4 ports DB9M or DB25M USB MinA to B Cable
CD	Driver CD

■Optional

Item	Port	Functin		FIFO	Port Type			USB	Power	
		RS422 /485	RS-232	Hard-ware	DB9M	DB25M	Mini Blok	Inter-face	USB	Exter-nal
UTD7009P	7	•		16	•	•		2.0/1.1	•	•
UTD4009P	4	•		16	•			2.0/1.1	•	•
UTD2009P	2	•		16	•			2.0/1.1	•	•



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