


	Product Name	Key Feature
	<p style="text-align: center;">UT-5204</p> <p style="text-align: center;">RS232/485 to 4 Port RS-485 HUB</p>	<div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> <div style="border: 1px solid gray; padding: 5px; margin: 5px;"> </div> </div>

INTRODUCED

I. Summary

UT-5204 is a RS-485 bus-division hub designed for RS-485 system used in complicated electromagnetic environments. It supports data communication rate up to 115.2KBPS. Photoelectric isolation technique is introduced to the RS-485 interface to prevent converter and device from lightning and surge voltage for ensuring the safe and reliable data communication. The built-in photoelectric isolator (an isolation voltage as high as 2.5KVrms) and 600W surge suppressor can effectively suppress lightning and ESD and the grounding interference with each RS-485 line. It uses external switching power supply for safety and reliability and is ideal for outdoor engineering applications. The built-in discrimination circuit can automatically sense the direction of data flow and switch the enable control circuit to ensure the automatic switch of transmit and receive in RS-485 mode. RS-485 is widely used in thruway toll system, road supervision system and electric power acquisition system as a high-performance and economical data interface converter. Short-circuit and open-circuit protection are provided for each port. Users can improve the RS-485 bus structure and divide bus segments conveniently for improved communication reliability. If lightning or faults occur then the failed segment will be isolated and make sure other segments can operate normally. This feature significantly improves the reliability of existing RS-485 network and reduces maintenance interval. Reasonable use of UT-5204 RS-485HUB can help to design a unique, highly reliable RS-485 system.

II. Specification:

- Interface: Compatible with RS-232 and RS-485 standards of EIA/TIA
- Electric connection: 10-bit wiring terminal for both RS-232 and RS-485 interface
- Transmission media: twisted-pair cable or shielded cable
- Operation mode: Asynchronous half-duplex
- Power supply: 9-30VDC/350mA
- Signal indication: 7 signal indicators - Power (PWR), Transmission (TD), Receive(RD), Error (E1-E4)
- Isolation voltage: continuous 2.5KVrms /500VDC isolation DC/DC module
- Data rate: 115.2K-300BPS
- Protection class: +/-15KV ESD protection for RS-232 interface; 600W lightning strike and surge protection for each RS-485 line.
- Communication distance: 0-5 KM(115200bps-300bps)
- Dimension: 120mm 72mm 22mm
- Working environment: -25 to 70 relative humidity of 5% to 95%

INFORMATION ORDER

MODEL: UT-5204 4-port RS-485 Hub, Rail-mounted, binding post, Photo Electric isolation