

### Product Features

- Ø Star topology: offer more flexible RS-485/RS-422 star bus structure with RS-485 interface input/output adopting independent drive modes. Change the original single bus structure into network structure which can greatly enhance the stability for engineering construction and system
- Ø Industrial class photoelectric isolation: offer over 3KV of photoelectric isolation to all RS-485 interfaces, and effectively solve the transmission problems caused by outside lightning strike, surge and potential difference
- Ø Automatic data direction control: solve data direction problem through hardware, judge and control data transmission direction automatically
- Ø Short/open circuit protection: possess RS-485 port malfunction alarming function, and can cut off malfunctioned port automatically, which can ensure the isolation of malfunctioned RS-485 PORT connected with it in order to ensure the proper operation of devices in other net segments

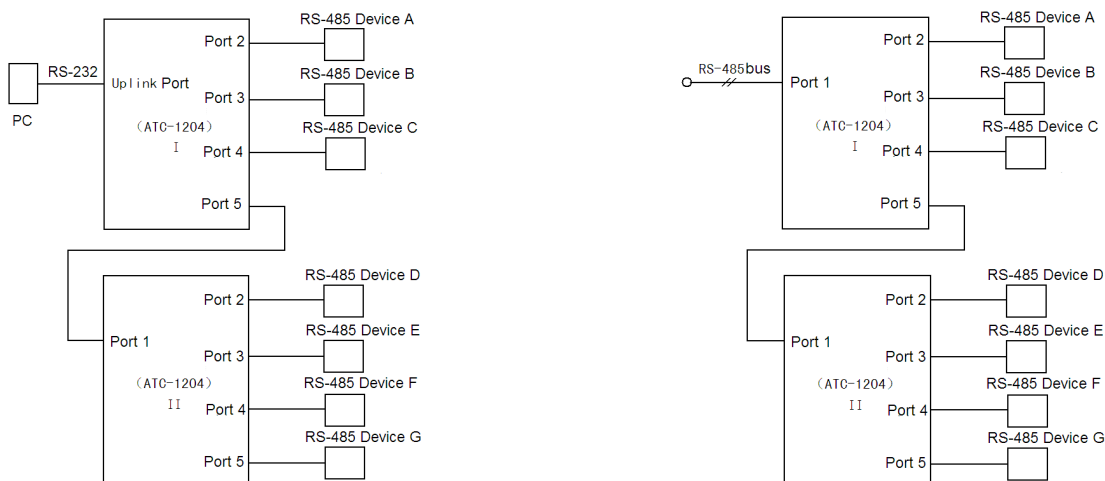


### Product Description

ATC-1204 is a RS-485 bus split hub specially designed To meet the demand of RS-485 system in complicated electromagnetic field environment. The product supports maximum 115.2KBPS transmission speed. The RS-485 interface has adopted photoelectric isolation technology to ensure safe and credible data communication, and prevent inducing lightning strike and surge to conversion board and devices. The built in photoelectric isolator and 600W surge protection circuit can offer 3500V isolation voltage, effectively inhibit lightning and ESD and prevent lightning strike and common code interference. It has adopted external switch power supply, safe and credible, quite suitable for outdoor engineering application.

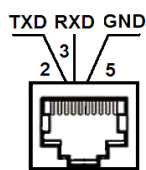
In RS-485 working mode, the adopted identification circuit can detect data direction and switch to control it automatically, easily to solve the time lag of RS-485 during receiving and conversion. The transmission distance of RS-485 interface has exceeded 1200 meters with stable performance. It is a data interface conversion product with superexcellent performance and good price and can be widely applied to freeway charge system, road monitoring system and electric power collection system.

Reasonable use of ATC-1204 RS-485 HUB can help you design a unique and highly credible RS-485 system.



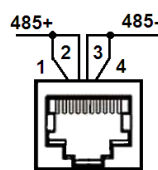
## Pin Assignment

RS-232C RJ45 definition (Uplink port )



RJ-45 connector	definition	Signal direction
2	TXD	OUT
3	RXD	IN
5	GND	-

RS-485 RJ45 definition (port 1-port 5)



RJ-45 connector	RS-485
1, 2	485+
3, 4	485-
7, 8(port 5 only)	Protection grounding

## Order Information

ATC-1204 4-port RS-485 hub (HUB) RS-232C/485

## Package Checklist

- Ø ATC-1204 1 PCS
- Ø RJ45 to RS232C cable 1PCS

## Specifications

Serial Interface		
Interface Type	EIA/TIA RS-232C, RS-485 standard (RJ45)	
Data Rate	300 ~ 115.2Kbps	
Transmission Media	0-5 km	
Working Mode	Asynchronous half duplex	
Connector	RS-232C	RJ45
	RS-485	RJ45
Serial Line Protection	RS-485 interface 1000W lightning strike and surge protection on each line	
Isolation	Isolation voltage 3500VRMS 500VDC sequence	
LED Indicators	TD	Indicates data transmitting
	RD	Indicates data receiving
	PWR	Power indicator
	E1-E4	Port 2-port 5 malfunction alarming light
Physical Characteristics		
Housing	Iron	
Weight	0.6Kg	
Dimensions	140mmx130mmx30mm	
Environmental Limits		
Operating Temperature	-20 ~ 70°C	
Storage Temperature	-40 ~ 85°C	
Ambient Relative Humidity	5% to 95%( non-condensing)	
Standards and Certifications		
RoHS, CE, FCC		

## Contact us

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