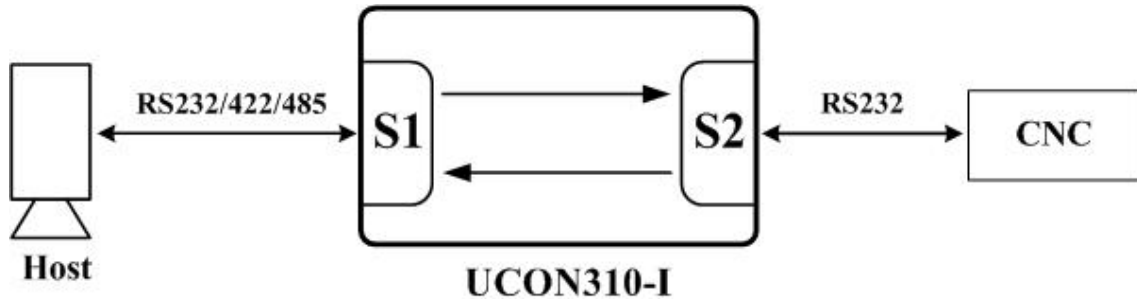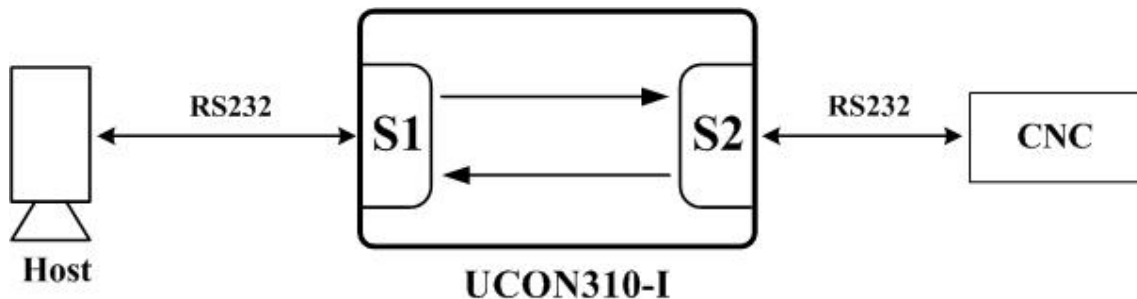# UCON310-I box is intelligent converter

UCON301-I box is powerful intelligent interface converter to support **GROUND isolated** feature and **interface type conversion** function.
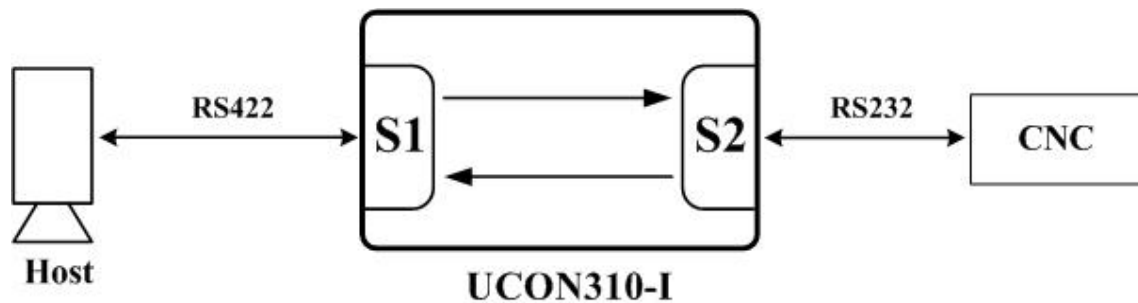

There are two DB9 connectors in UCON310-I box. Serial port 1 is **RS232/RS422/RS485 settable**, so you can connect with any host equipment. Serial port 2 is **GROUND isolated RS232**. We will use external 5V power adapter to offer power supply for UCON310-I box. The signal ground pin in serial port 1 is same as signal ground pin of 5V power adapter. The signal pin in serial port 2 is different and isolated with serial port 1. So we can remove the ground loop between the device to connect with serial port 1 and device to connect with serial port 2.

We can use UCON310-I box as **full-duplex RS232** to GROUND isolated **RS232 interface Isolator.** So we will set serial port 1 in RS232 interface type (DIP Switch bit 1 and bit 2 set in OFF location) and serial port 2 in RS232 interface type (DIP Switch bit 3 in OFF location and bit 4 in OFF location). Now we can let one RS232 device to be connected with other RS232 device safety.
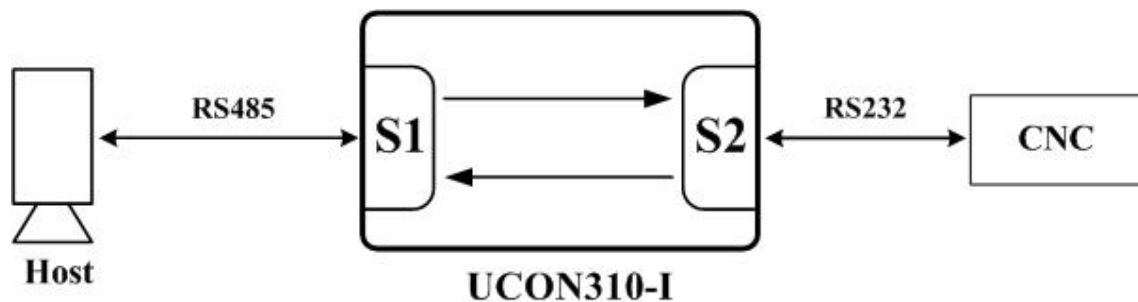

We can use UCON301-I box as **full-duplex RS422** to GROUND isolated **RS232** interface **converter**. So we will set serial port 1 in RS422 interface type (DIP Switch bit 1 and bit 2 set in ON location) and serial port 2 in RS232 interface type (DIP

Switch bit 3 in OFF location and bit 4 in OFF location). Now we can let one full-duplex RS422 device to be connected with RS232 device safety.
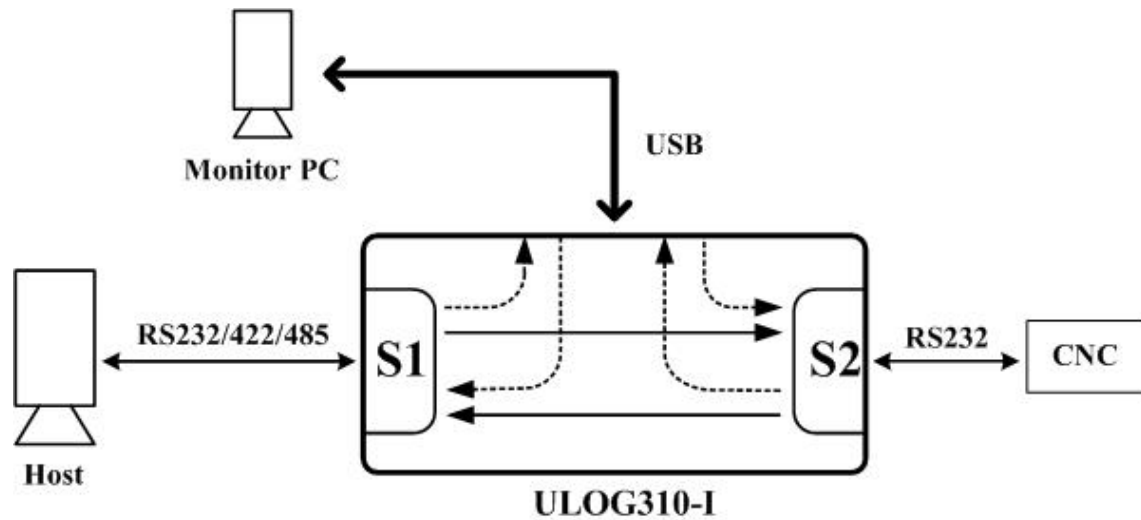

We can use UCON310-I box as RS485 to GROUND isolated **RS232 interface converter**. So we will set serial port 1 in RS485 interface type (DIP Switch bit 1 in OFF location and bit 2 set in ON location) and serial port 2 in RS232 interface type (DIP Switch bit 3 in OFF location and bit 4 in OFF location). Now we can let one RS485 device to be connected with RS232 device safety.

In **RS232 application environment** we can use one **UCON310-I** box to let any equipment worked in. You can let one RS232 device to be worked in RS485 network. You can extend your RS232 device to long distance connection via RS422 interface. What you need is to prepare one UCON310-I box in stock. Don't need to prepare RS232 to RS485 **interface converter**. Don't need to prepare RS232 to RS232 **interface converter**. Don't need to prepare RS232 to RS232 Ground Isolator box. **Save your cost in stock. Support your function in emergency requirement.**

When there are some problems in your RS232 application environment. Another product ULOG310-I box from **RAYON Technology** can help you. **ULOG310-I** box can support same function as UCON310-I box. But you can **monitor** data transmission **real time** via USB connection. When you have one ULOG310-I box to be connected with PC via USB cable. You can create two COM ports in PC. Each

COM port will receive data in serial port 1 and serial port 2. When there are any problems in application environment, we can analyze such data transmission in network to find possible problem.

In serial port application environment you can send mail to info@rayontech.com.tw or rayon@ms1.hinet.net to talk with over 35 years experience engineer.