# Other possible solution for current TWIN232 box user

Because TWIN232 box is discontinued to make, so there are other solution in RAYON for current TWIN232 box user to support current TWIN232 application environment. Because we do not have product to direct replace TWIN232 box, so we need to check your application environment to use other product in your current environment. It may be due to maintenance purpose or new for similar application requirement.
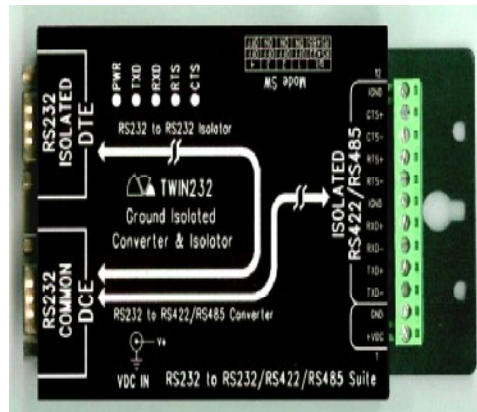
The major function for original TWIN232 box is RS232 input and opto-isolated RS232 and RS422/RS485 output. So we can use TWIN232 box as RS232 to RS232 opto-isolated Isolator (when we just use RS232 output connection). Or we can use TWIN232 box as RS232 to opto-isolated RS422/RS485 interface converter (when we just useRS422/RS485 output connection), In TWIN232 box RS232 input signal ground is same as power input ground and it is opto-isolated with RS232 and RS422/RS485 output signal ground. Please keep in mind that RS232 output connector with same signal ground in RS422/RS485 output connector.
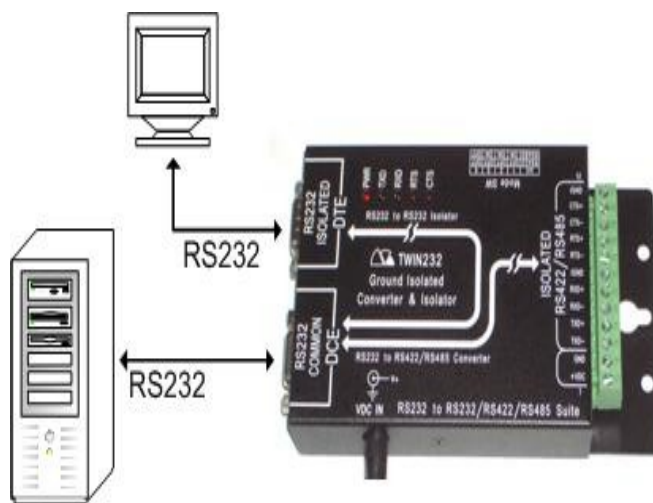
*TWIN232 box is used as RS232 GROUND Isolator. (Application environment type 1)
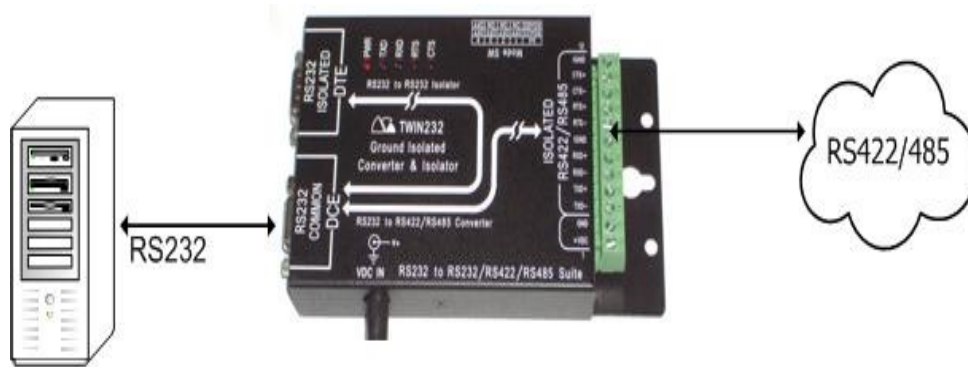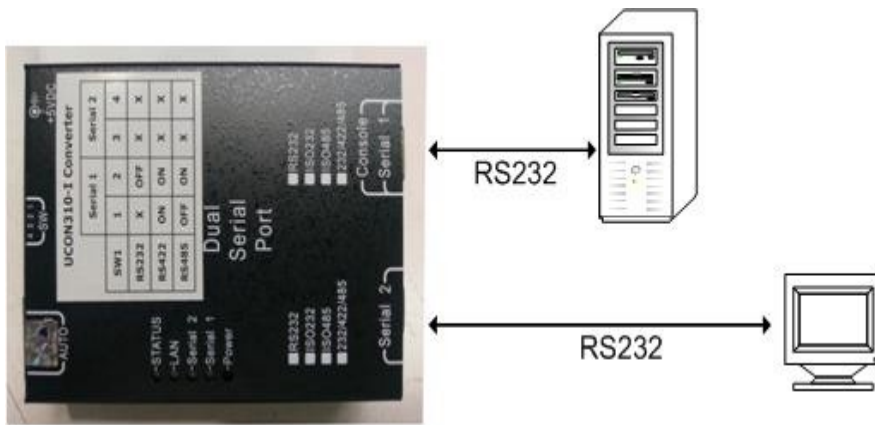
*TWIN232 box is used as RS232 to GROUND Isolated RS422/RS485 interface converter.(Application environment type 2)

If you just need to use TWIN232 box as RS232 GROUND Isolator function (only use RS232 output connector) or RS232 to GROUND isolated RS422/RS485 interface converter function (only use RS422/RS485 output connector), then we would suggest to use UCON310-I box to replace your TWIN232 box in your application environment.

UCON310-I box can set input connector as RS232，RS422, RS485 interface type and offer opto-isolated RS232 output. So we can use UCON310-I box as RS232 to RS232 Ground Isolator (set input connector interface type in RS232) or RS422/RS485 to RS232 interface converter (set input connector interface type in RS422 or RS485). In this application environment UCON310-I box can offer similar function as TWIN232 box. Please keep in mind that the input connector signal Ground is same as power input Ground.

*UCON310-I box to be used as RS232 Ground Isolator.(Application environment type1)
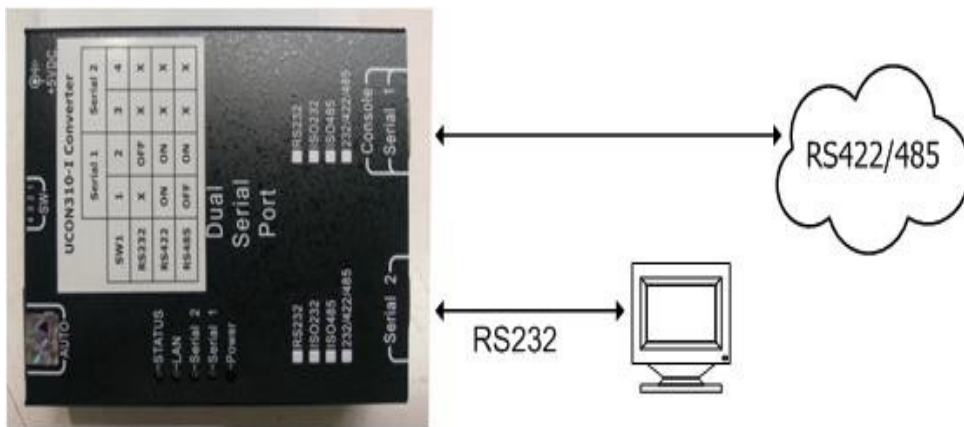

*UCON310-I box is used as RS232 to RS422/RS485 interface converter.(Application environment type 2)

If your application environment were more complex structure, then you may use RS232 output for local connection and RS422/RS485 output for remote connection simultaneously. In this condition we would suggest to use TWIN232DBI box to replace TWIN232 box.

TWIN232DBI box can support RS232 input to GROUND Isolated RS232 and RS422/RS485 output. TWIN232DBI box can support same function as TWIN232 box. But TWIN232 box may have same signal GROUND in RS232 input connector and power input. So we may have voltage

difference problem between RS232 input connector connected equipment and power supply input for TWIN232 box. In the other hand TWIN232 box RS232 output connector is same signal GROUND with RS422/RS485 output connector. So we may have voltage difference problem between RS232 output connector connected equipment and RS422/RS485 connector connected equipment. In general application environment such voltage difference in signal GROUND may not have big problem. But in rigid application environment we may have big problem in such GROUND loop potential difference condition. In TWIN232DBI box we support GROUND isolated feature in input connector, all output connectors, power supply input connector to remove GROUND loop problem between any equipments. So we can offer more safety in rigid application environment. That is why we can use TWIN232DBI box to replace TWIN232 box with same function and offer more reliable triple opto-isolated protection in your rigid application environment.
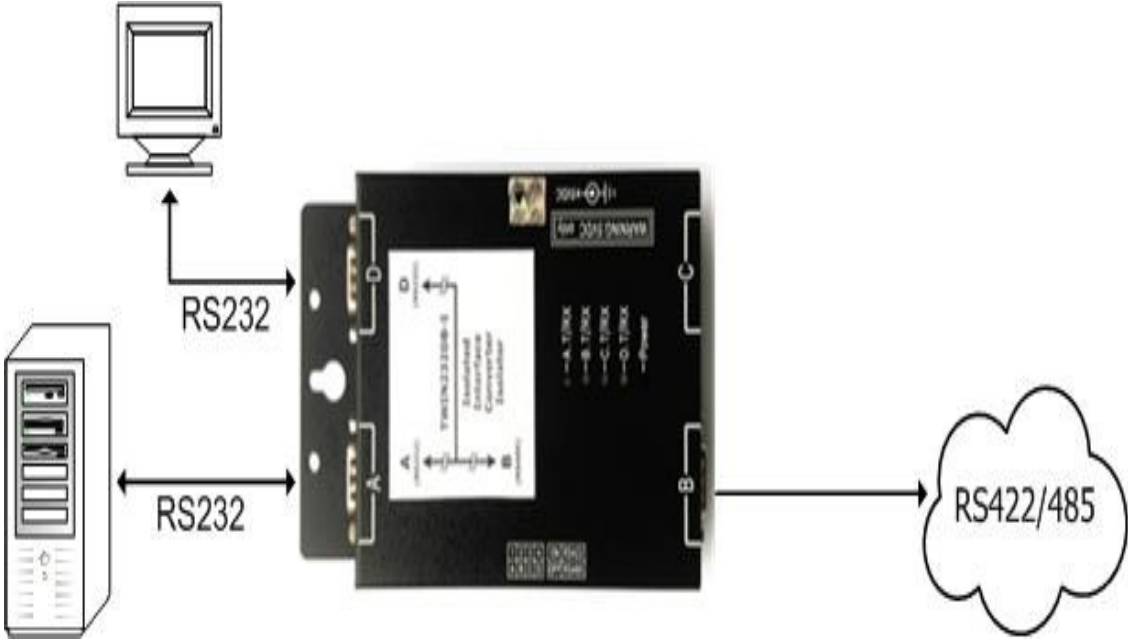
*TWIN232DBI box can support RS232 local connection and remote RS422/RS485 connection.