# Why we need to have APORT800SR box

In one industrial environment we may need to let one signal source to offer same data for different device to process. Each device may process such data for different application project. For example, we may have one GPS receiver to offer same GPS data for different equipment to process.

Traditionally we may use one S272 serial port sharer box to connect such signal source via RS232 cable to master port of S272 box. Then we can have same data to send for all equipments to connect with slave port of S272 box. Due to RS232 connection may have distance limitation problem, so we may need one IP to serial port converter to overcome such distance limitation via network connection.
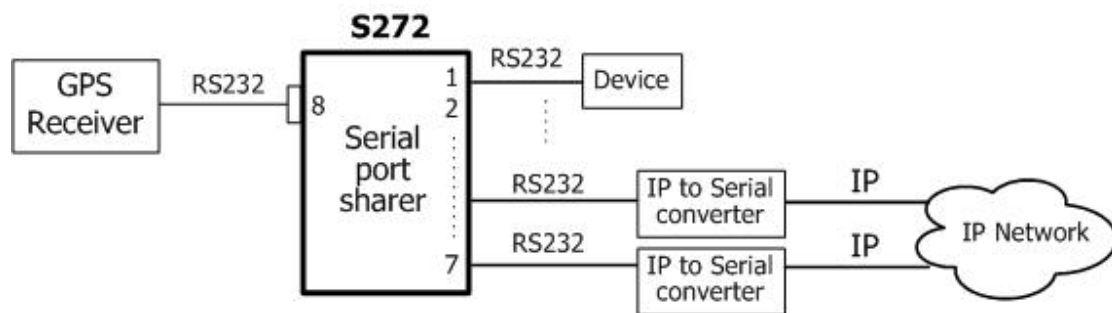
If we might have multiple equipments to use network connection, then we may need multiple IP to serial port converter boxes. It is a little complex structure. So we suggest to use APORT800SR box for such application environment. In the IP network side of APORT800SR box we may see as one APORT800 IP to 8 serial port converter box to offer 8 serial ports via IP network connection. In the RS232 serial port side of APORT800SR box we may see as one S282 serial port sharer box to offer one master port to 8 slave ports. So the 8 slave ports of S282 box will connect with serial port of APORT800 box internally. Now we can have data from signal source to send multiple remote equipments via network connection simultaneously.

APORT800SR
=S282 BOX+APORT800 BOX
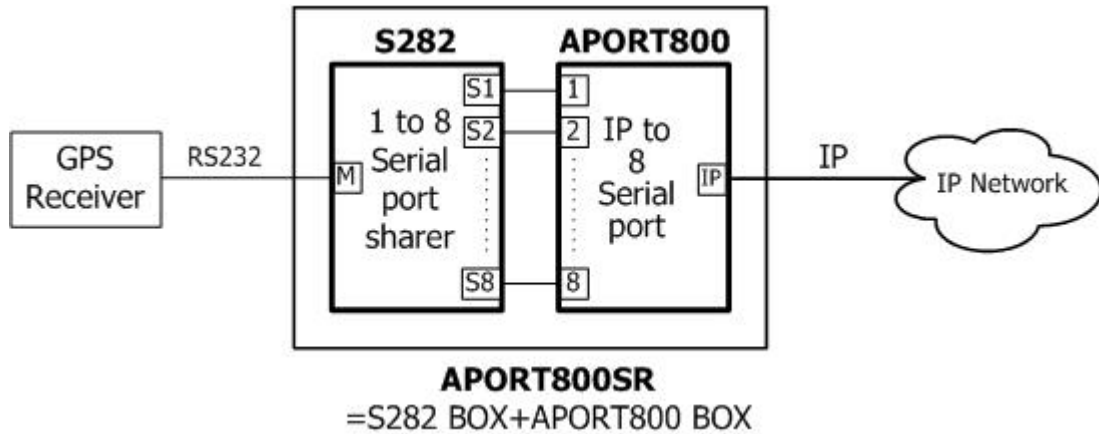
Because each serial port of APORT800 box may have different mode to set for different application environment feature, so we can set to meet your target application structure. For example, one serial port may set in "TCP server" mode to be connected by equipment anytime. One serial port may set in "TCP client" mode to connect with assigned IP target equipment only. One serial port may set in "UDP" mode to send UDP packet to up to 4 assigned IP target equipments.
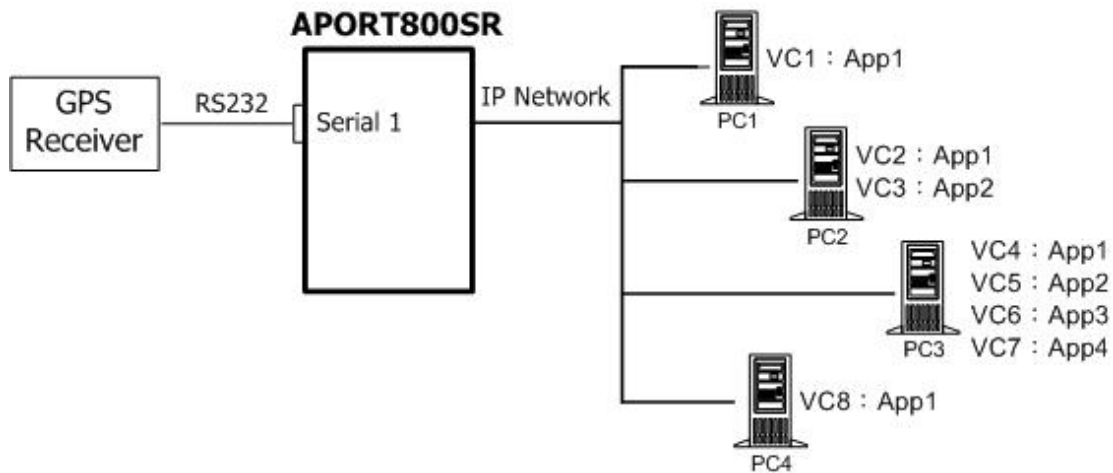
When we use APORT800SR box, we can simplify the system structure. And we can reduce the system cost.