

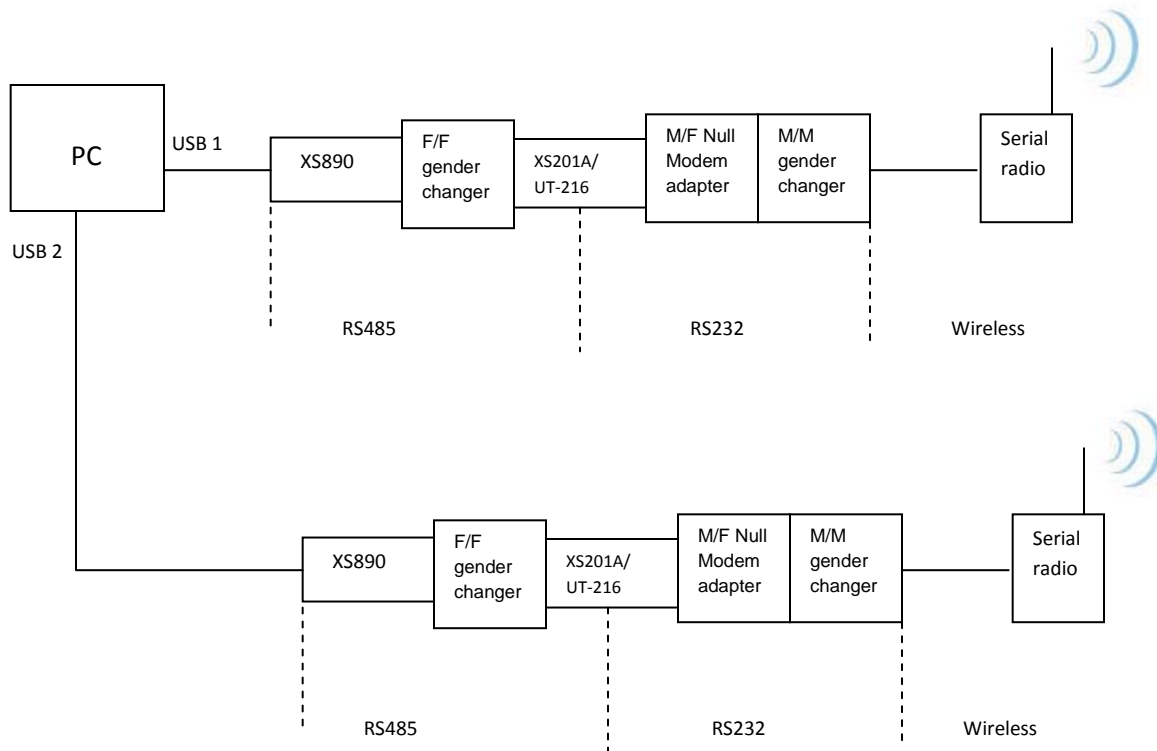
Using the YSC10U/YSC30L serial radios with RS485 ports.

The YSC10U/YSC30L serial radios have a RS232 interface however by using a RS232 to RS485 converter the radios can be used with RS485 ports.

This guide describes how to make a test setup with a PC which does not have native RS485 ports hence we make use of two USB to RS485 adapters. If your PC or serial device does have native RS485 ports then you do not need to use the USB to RS485 adapters. However, before you connect the serial radios to your equipment we strongly recommend you to make this test setup to get familiar with the radios and to verify the radios are configured correctly and will communicate properly.

Parts needed:

1. 2pcs serial radios, part number YSC10U or YSC30L
2. 2pcs RS232 to RS485 converters, part number XS201A or UT-216
3. 2pcs USB to RS485/422 converters, part number XS890
4. 2pcs Female/Female gender changers
5. 2pcs Male/Male gender changers
6. 2pcs Male/Female Null Modem adapters



Assemble the test setup as indicated in the above diagram.

No external power supply for the XS201A is required, it gets powered through the XS890. The UT-216 however does inherently require an external power supply.

By using AccessPort you can now verify if you can send and receive data between the two radios. For details on how to do this please see the section called "Verifying Communication" in the setup guide for the serial RS232 RF Radios.

The LED light on top of the YSC30L should flash green when the radio is receiving data (weak green flash barely noticeable), and it should flash red while transmitting data.

Notice: If both units are trying to transmit and receive simultaneously the received data might be garbled. These radios are made for either transmitting or receiving, but not both at the same time.

To configure the parameters of the serial radios you can connect via the configuration utility (make sure you are using the correct COM port if you are connecting through a USB to serial adapter):

