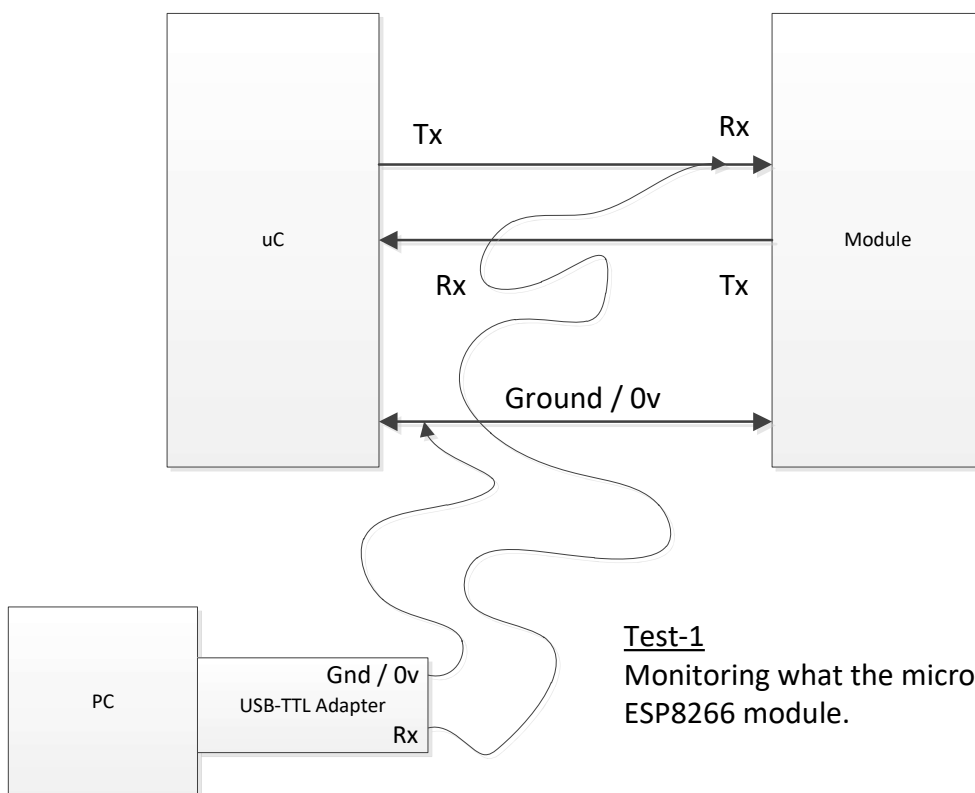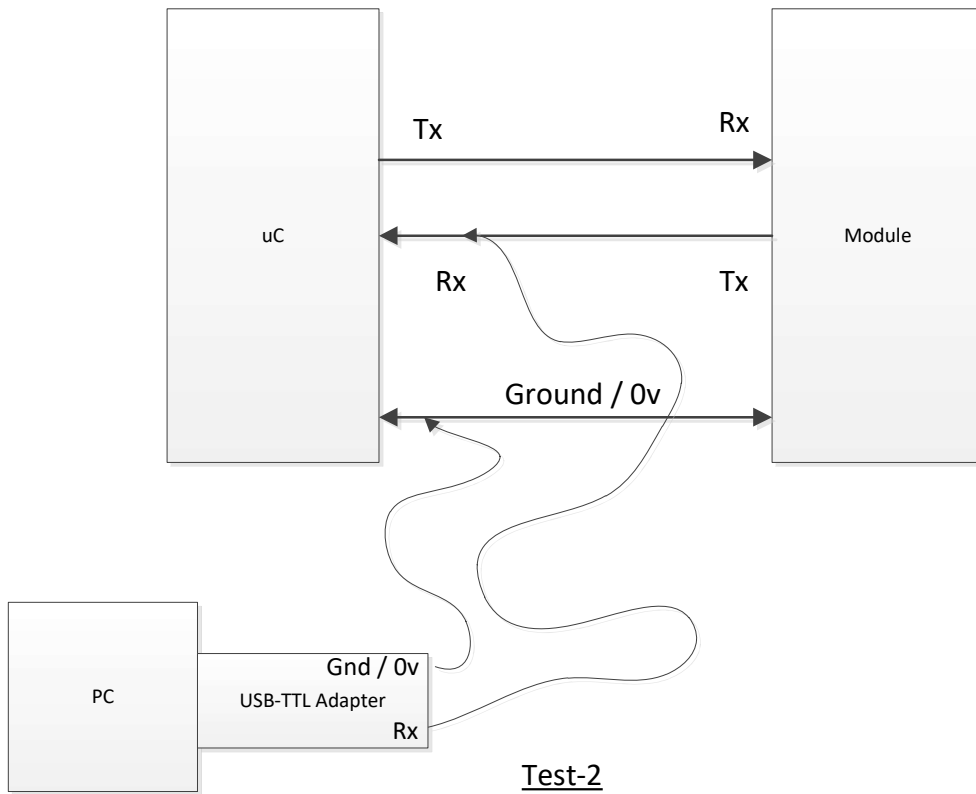ATMEGA8 / 328P   ESP8266

General connections between Microcontroller and ESP8266 module. Note you
may need a voltage divider between uC Tx and module Rx.

Test-1
Monitoring what the microcontroller is sending to the
ESP8266 module.

uC

Tx ──────────────► Rx

Rx ◄────────────── Tx

◄──── Ground / 0v ────►

Module

PC

USB-TTL Adapter

Gnd / 0v

Rx

Test-2
Monitoring what the ESP8266 is sending to the Microcontroller.