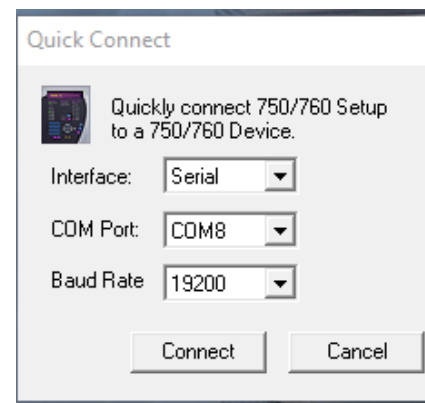
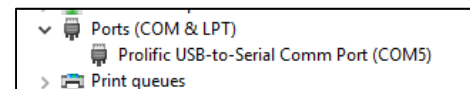


# How To Communicate with a Test-Set or Relay

## *Cheat Sheet Checklist*

### Serial Communication: Steps

- Connect Your USB to Serial Adapter or Bluetooth
- Connect your Null Modem (SEL, Beckwith, SIEMENS, GE DGP/LPS) or Straight-Through Cable (GE UR/SR/MIV/MIF, Schneider, MiCOM)
- Find Out the Serial Comm Port Address (Device Manager / Ports (COM & LPT))
- Change Port Number if Connected to GE and Comm Port Address is Greater than 10.
- Open the Communication Software
- Open the Communication Setup Menu
- Choose the Comm Port Address
- Choose the Baud Rate
- Click Connect

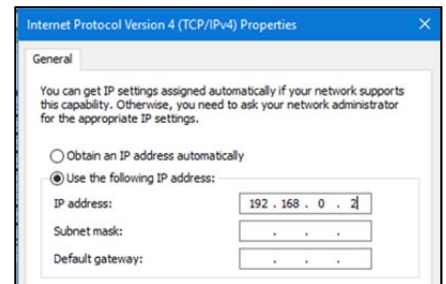
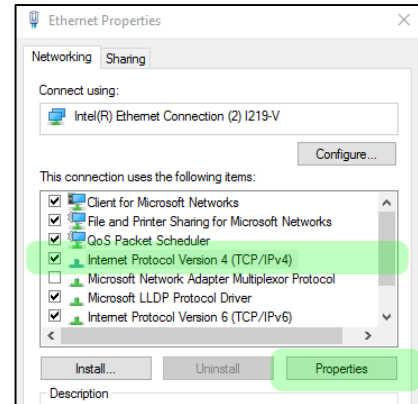


### Serial Communication: Troubleshooting

- Have you connected your cables and are they seated properly?
- Do you have the right kind of cable? (Try adding a null modem adapter)
- Is the baud rate, or communication speed, correct?
- Do you have the correct protocol set in the relay?
- Are you connected to a USB 3.0 port (blue)?
- Have you tried re-installing the USB-to-Serial Driver?

## Ethernet Communication: Steps

- Connect the Ethernet cable, Wi-Fi, or Router
- Choose the TCP/IP Reference: Relay, Test-set, or Laptop
- Change all Device IP Addresses to Match the First Three Numbers in the IP Sddress (xxx.xxx.xxx.yyy) [Network & Sharing Center / Change Adapter Settings / Right-Click Adapter / Properties / Internet Protocol Version 4 (TCP/IPv4) / Properties]]
- Make Sure the Last Number in the IP Addresses Are Different
- Open Your Communication Software
- Select Ethernet
- Enter the TCP/IP Address of Device You Want to Talk to
- Click Connect



## Ethernet Communication: Troubleshooting

- Did you connect your cables and are they seated properly? (Check the LEDs on the ports.)
- Did you check the adapter settings using IPCONFIG or IPCONFIG /ALL? (Start menu / cmd.exe or command prompt)
- Have you tested the communication channel, using PING xxx.xxx.xxx.yyy? (Start menu / cmd.exe or command prompt)
- Have you tried the device internal web server by opening browser and typing the IP Address xxx.xxx.xxx.yyy? (Not all devices have web servers)
- Have you disabled the VPN?
- Have you disabled all the other connections to the internet and restarted your computer?
- Have you disabled the firewall / antivirus?
- Have you checked the internet options / proxy server?
- Have you disabled all of the above and rebooted?