Hardware Side of JT65-HF

Required Hardware:

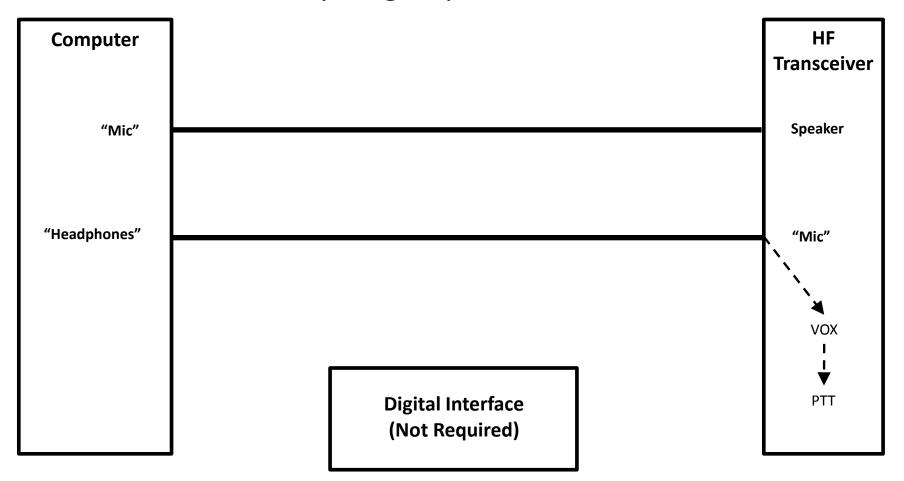
- HF SSB Transceiver
- Computer
- •2-6 Customs Cables
- Digital Interface (may not be required)

JT65 Hardware Interconnects

| Computer | Digital Interface | HF Transceiver |
|----------|----------------------|-------------------|
| | | |
| | | |
| | | |
| | | |
| | | |

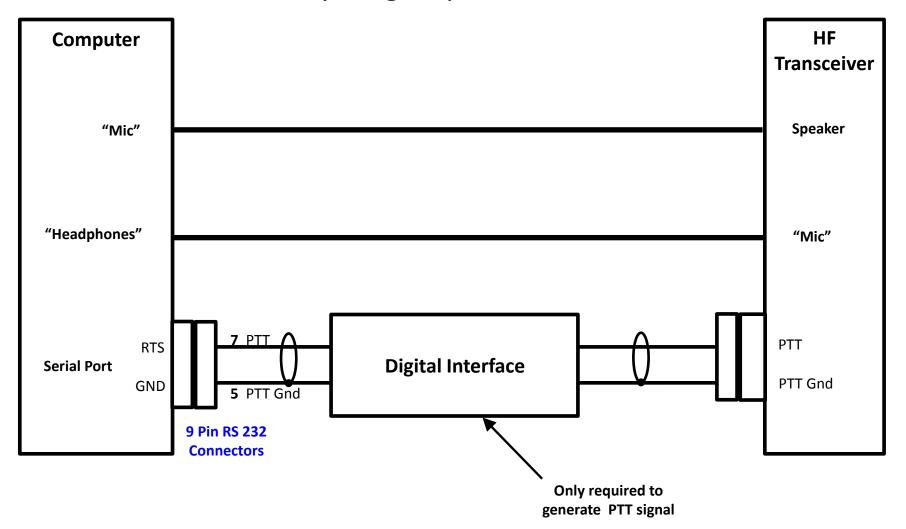
JT65 Hardware Interconnects – Simplest

Only 2 signal paths involved

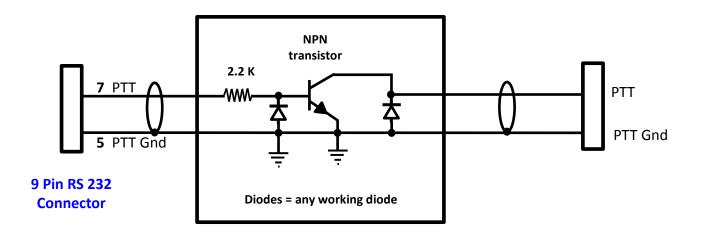


JT65 Hardware Interconnects – Simple

Only 3 signal paths involved



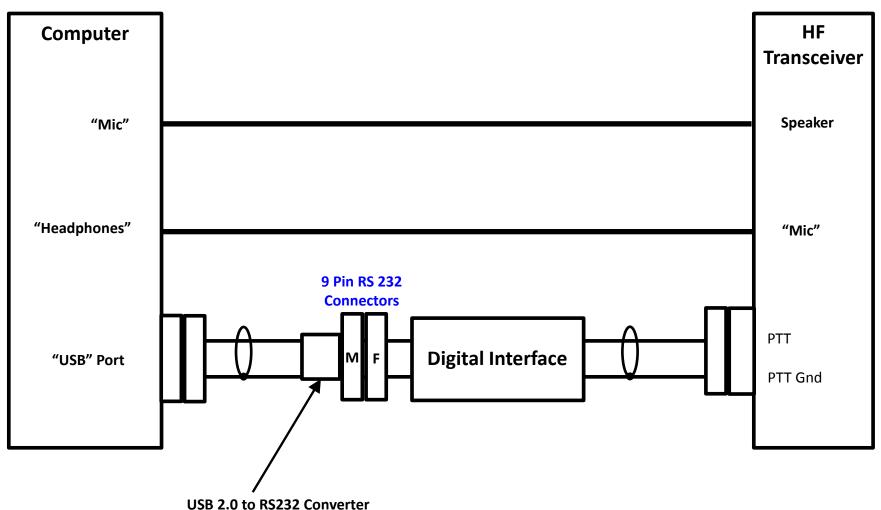
Digital Interface - Simplest



POTENTIAL PROBLEMS:

- Some computers do not have a "MIC" input
- Tones generated by computer may not have equal amplitude
 - May be hard to identify this problem
 - May not be a common problem
- No RS 232 serial port
- Difficult to set MIC level to transmitter
 - Typical computer audio out is ~2V
 - Typical "MIC" input level is ~10mV
- Difficult to set MIC level to computer
 - Don't use JT65 software to adjust receiver audio level
- Ground loops

Digital Interconnects Using A USB Port

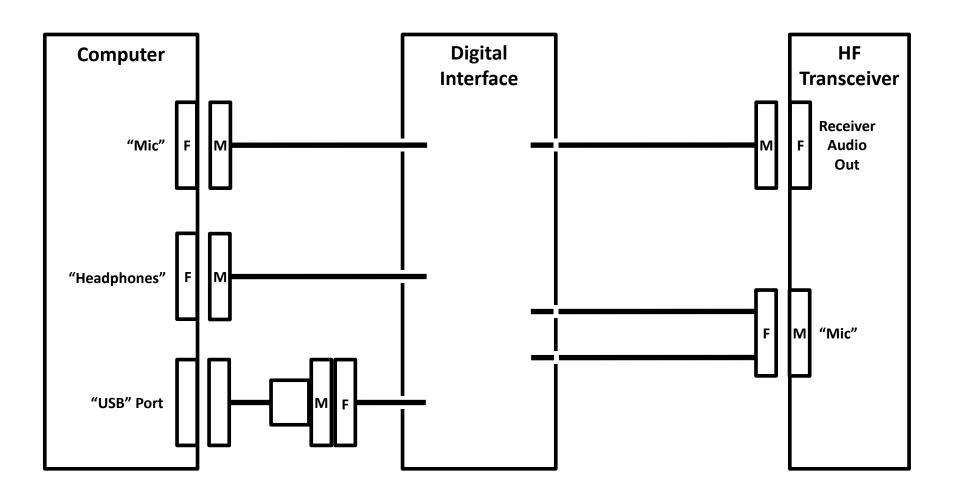


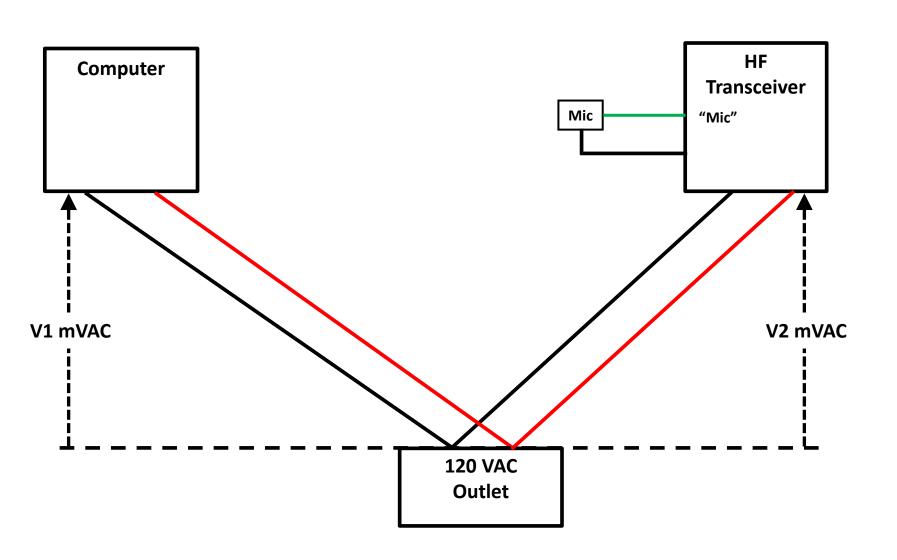
•Mfg: eforcity

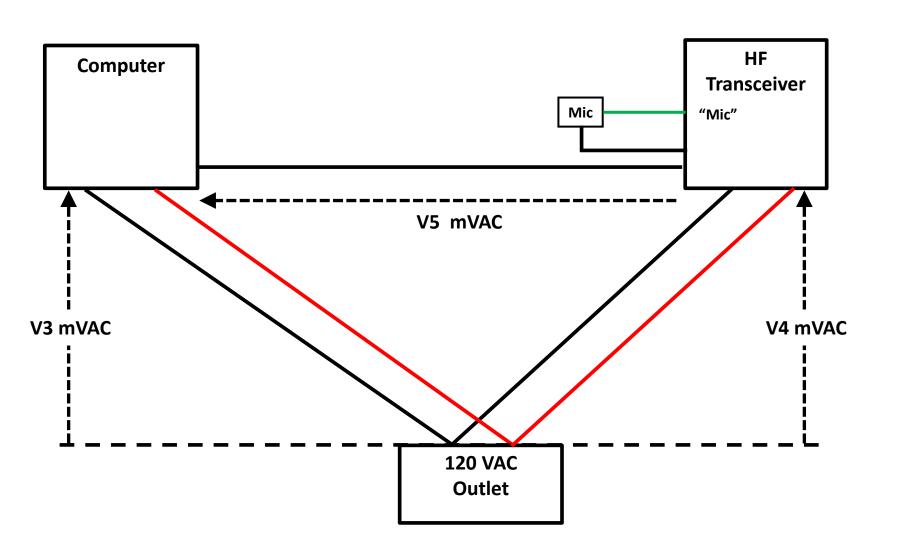
•Model: PCABUSBX0049

•Driver Download: http://driverdownload168.com

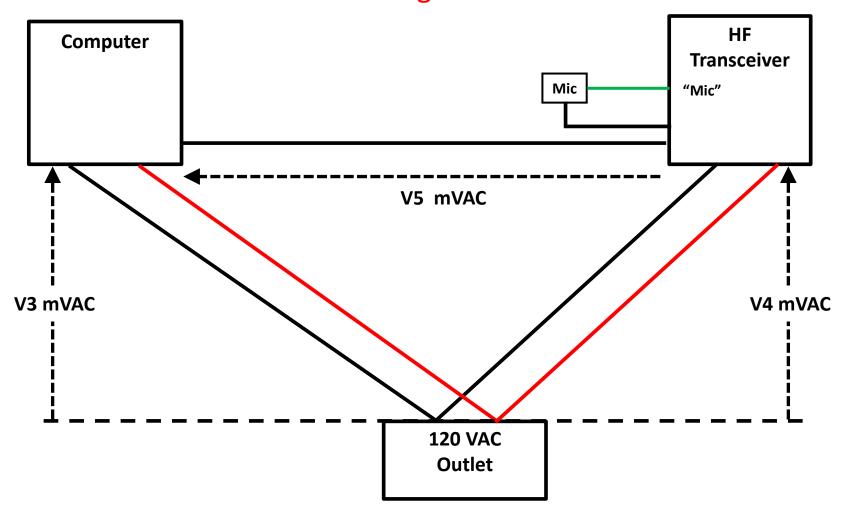
Digital Interconnects – Best

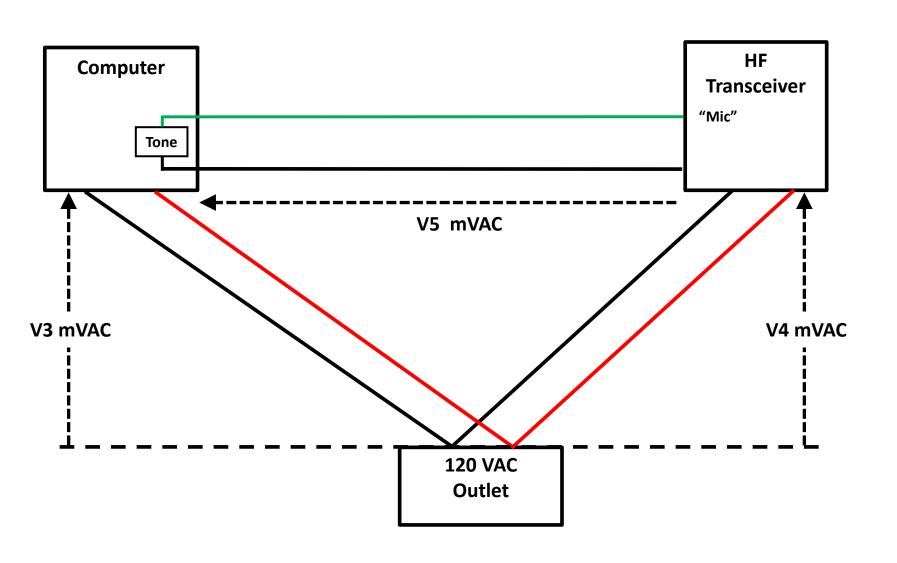


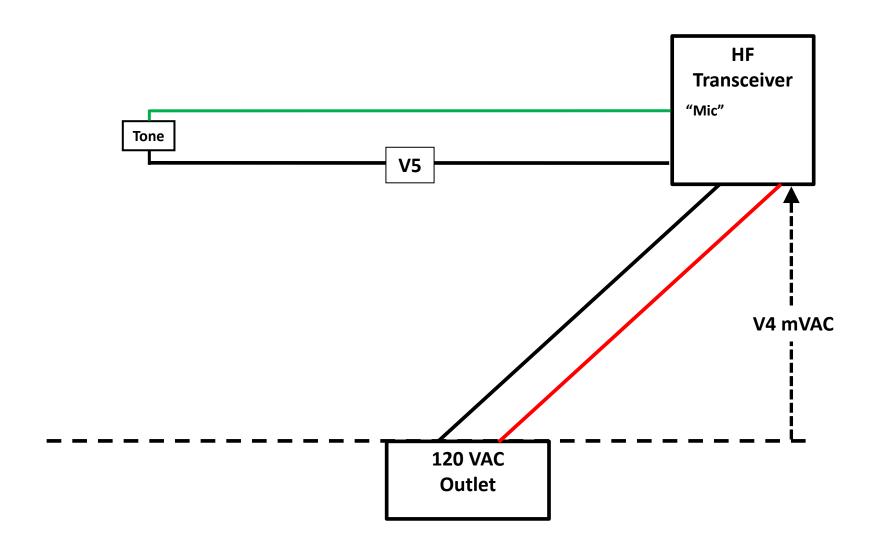


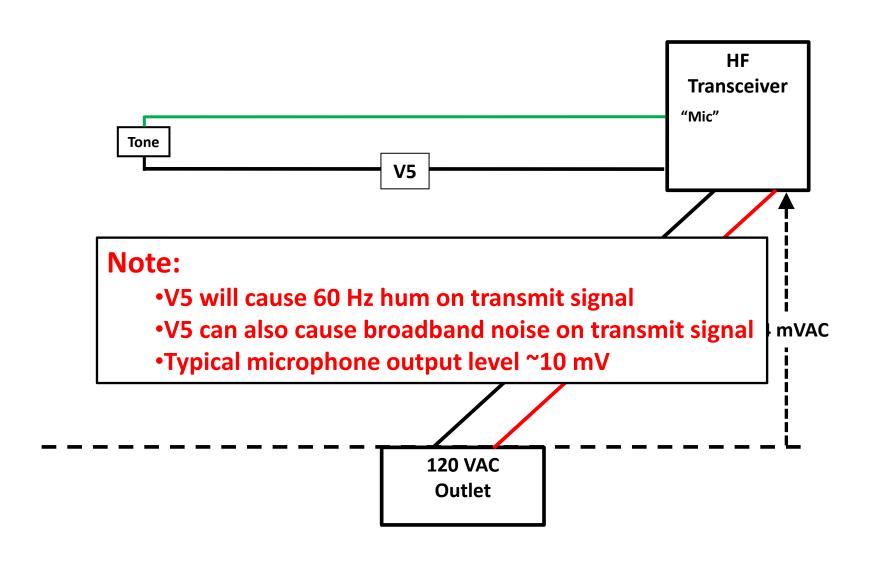


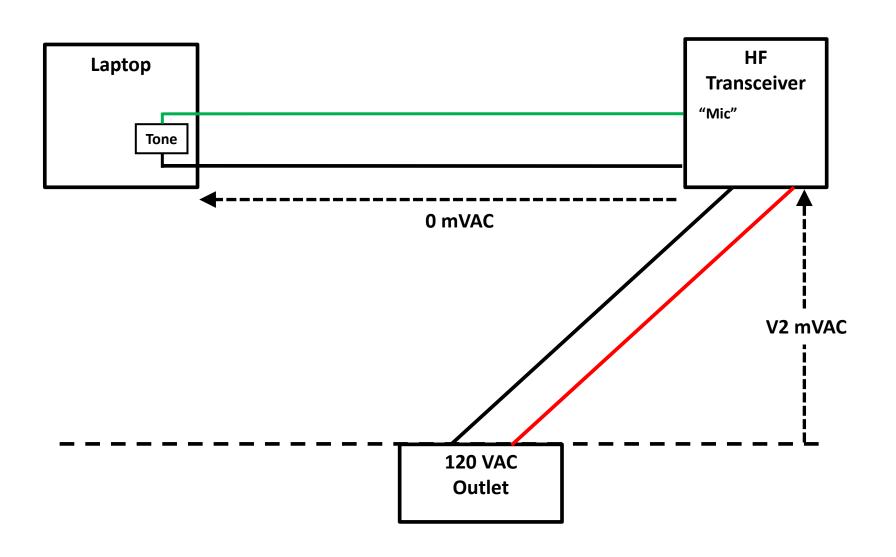
Note: All voltages are 60 Hz AC

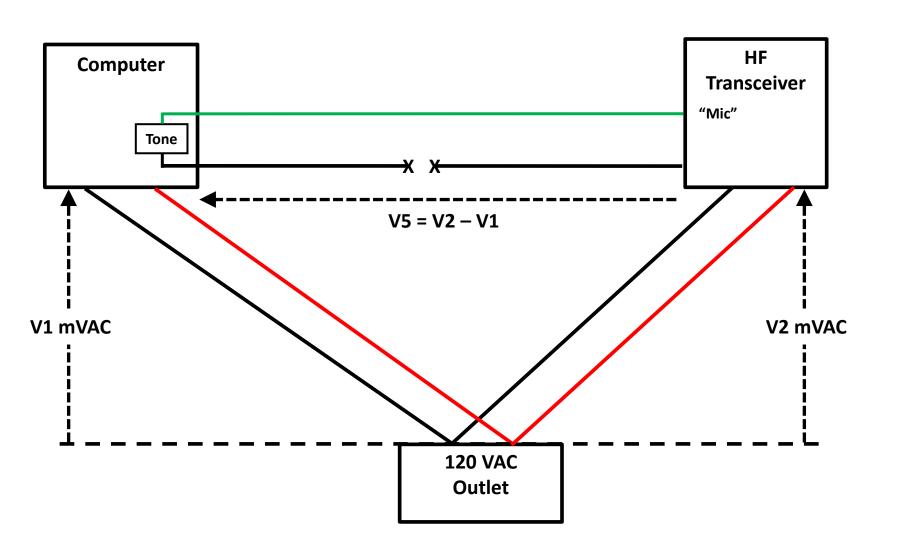


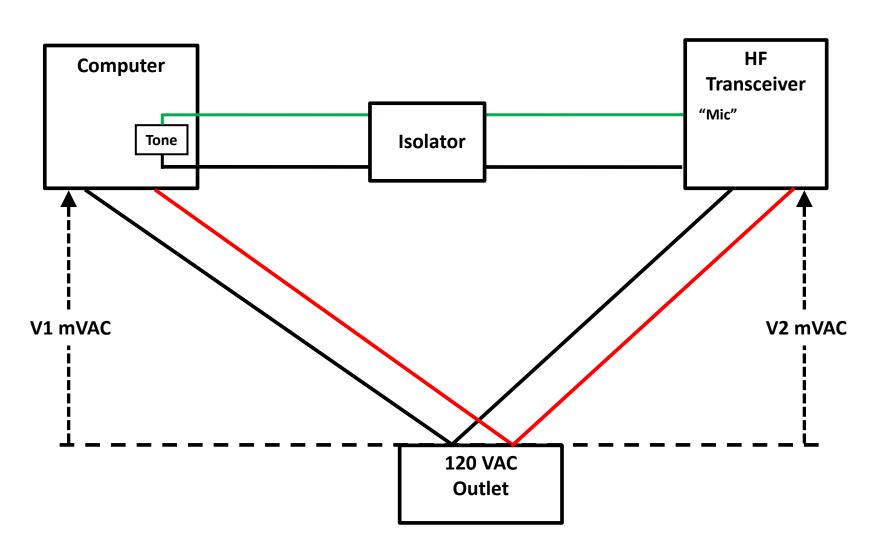


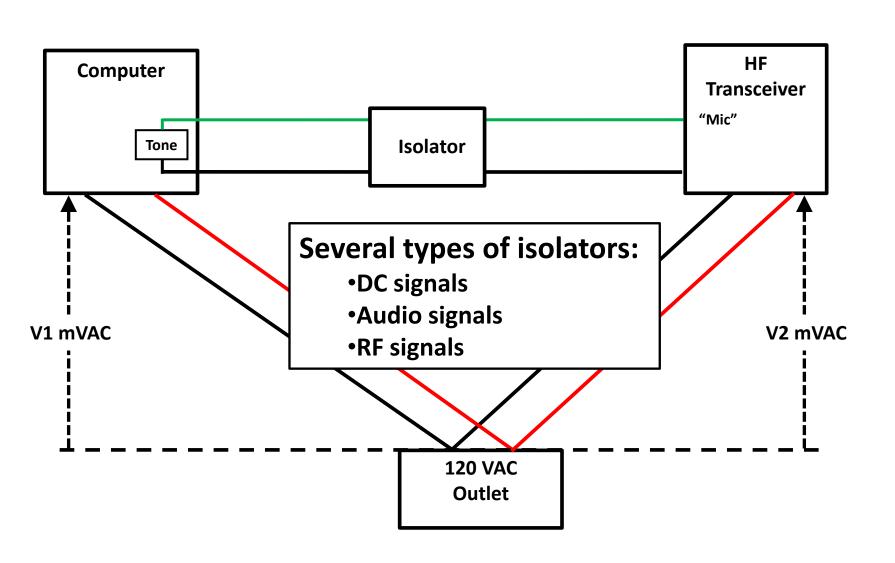




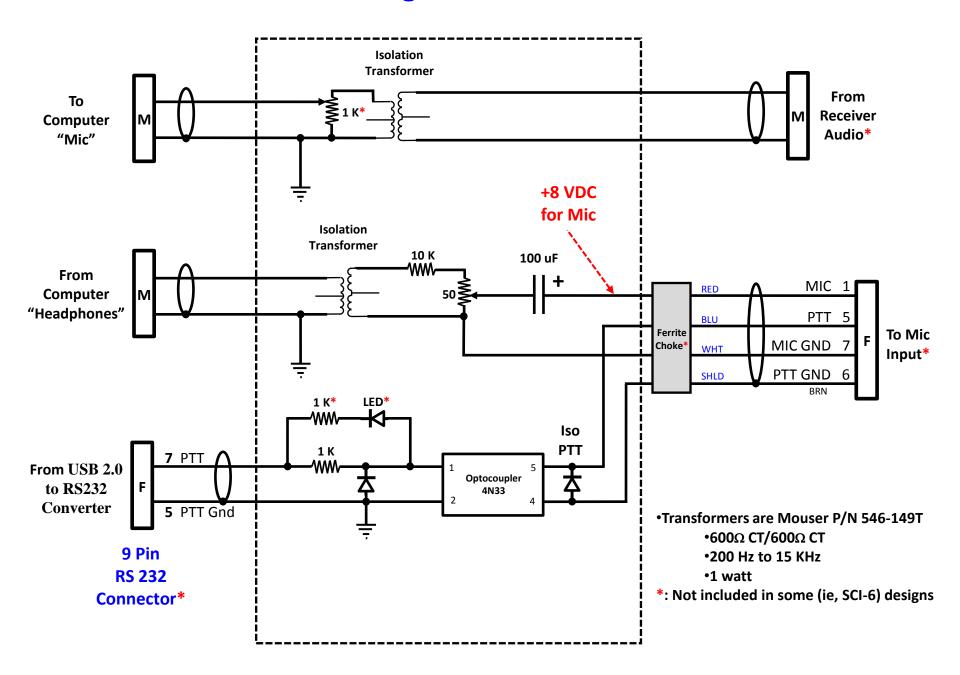




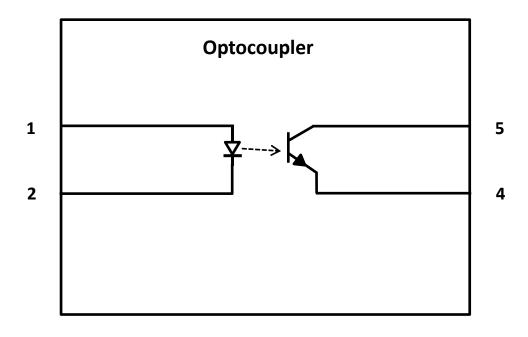




Digital Interface



Optocoupler



Turn-On time <5 usec
Turn-OFF time < 100 usec