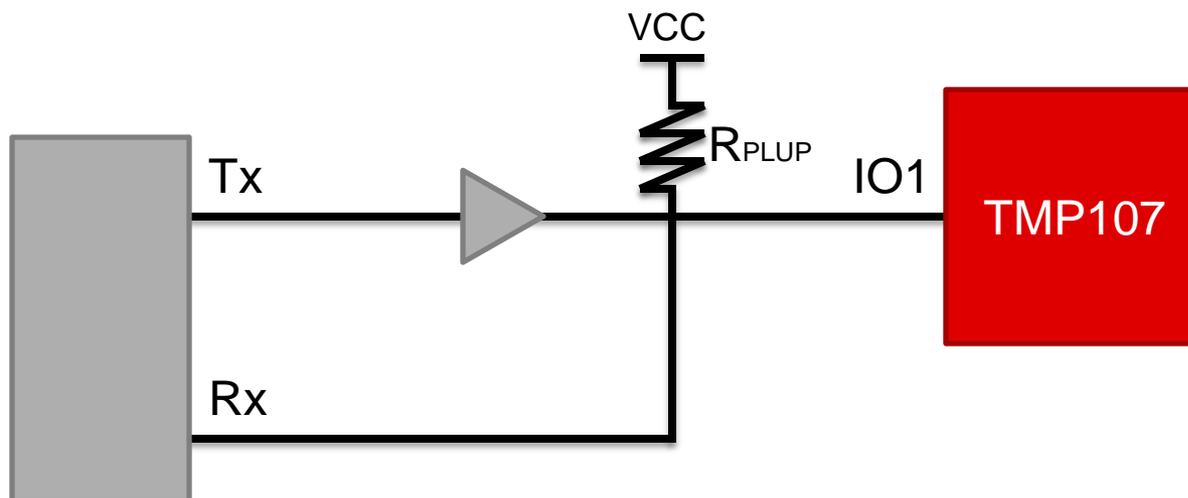


# TMP107 Interface Guide

**Ren Schackmann**

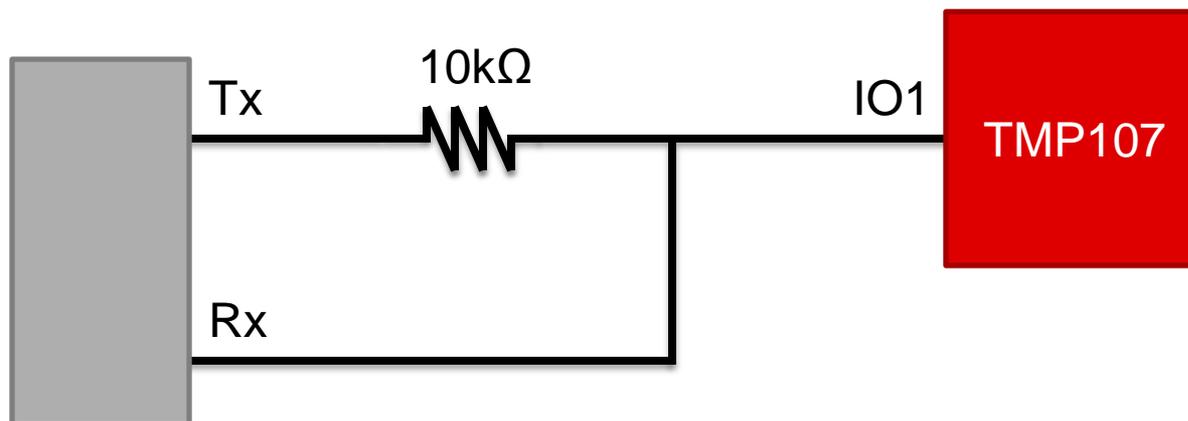
**February 2016**

# Any UART



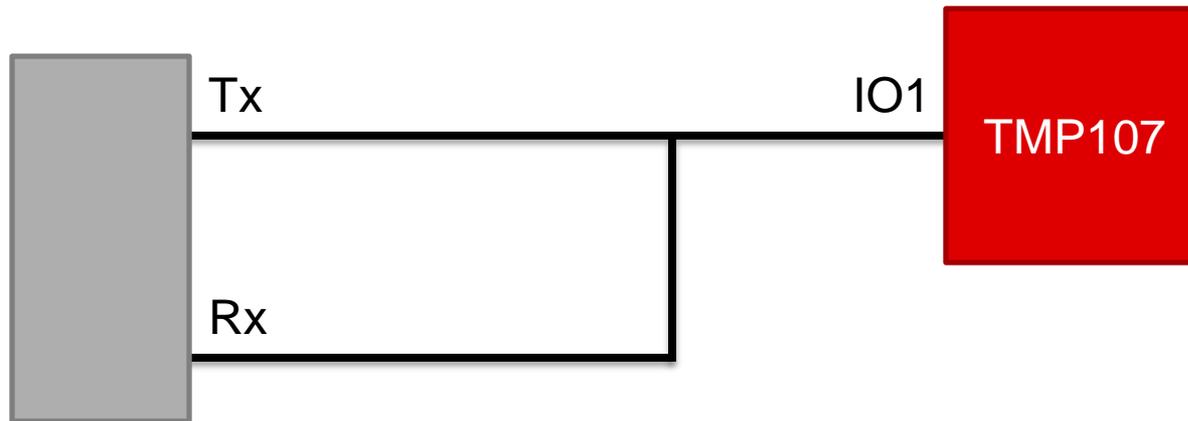
- ✓ Hardware UART Timing
- ✓ Works on PC COM ports
- ✓ Re-use vendor UART code
- ✗ Tx line not capable of emulating open-drain driver
- ✗ Extra component used (SN74LVC1G07)

# Any UART



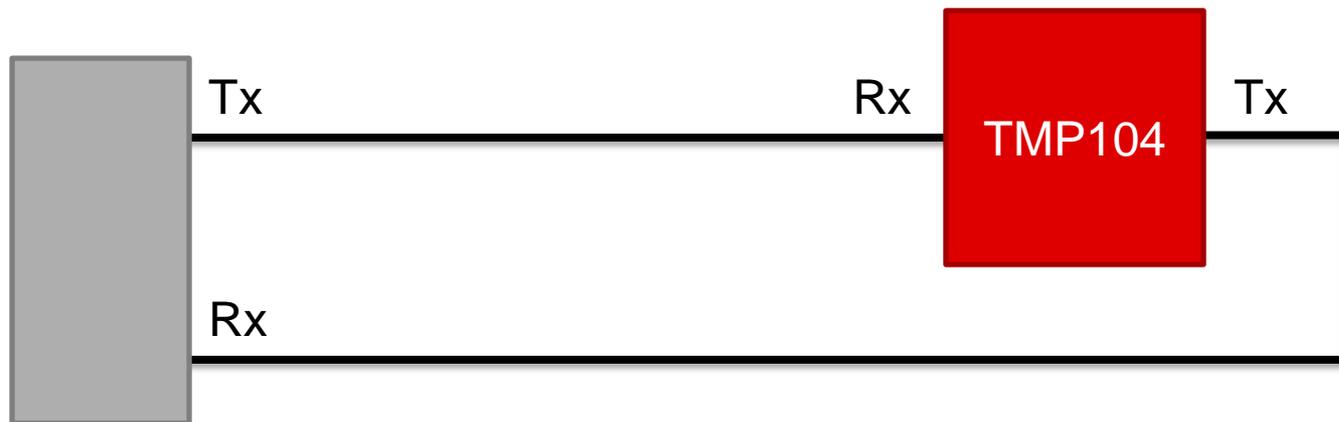
- ✓ Hardware UART Timing
- ✓ Works on PC COM ports
- ✓ Re-use vendor UART code
- ✗ Extra component: Current Limiting Resistor

# Microcontroller UART



- ✓ Hardware UART Timing
- ✓ No extra components
- ✗ Make changes to vendor UART code
- ✗ Microcontroller required

# TMP104



- ✓ Hardware UART Timing
- ✓ Works on PC COM ports
- ✓ Re-use vendor UART code
- ✓ No extra components
- ✗ Long Return Line More Susceptible to EMI
- ✗ 4 Wire Solution (as opposed to 3)