WedgeLink AT
Auto Baud Rate Detection

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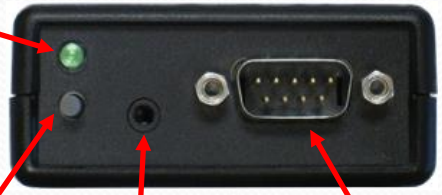
Introduction

- This document reviews how the “Auto Baud Rate Detection” feature is used to connect an RS-232 serial output device to the WedgeLink AT keyboard wedge
- The WedgeLink AT User’s Guide contains multiple definitions of this feature. This document will use the phrase “Auto Baud”.

WedgeLink AT

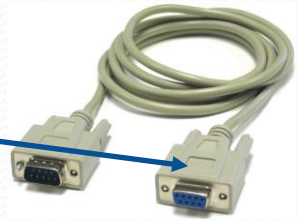
Front panel



Back panel

Required Items

- WedgeLink AT
- RS-232 output device
- Device data cable
  - Your cable may look different
  - DB9 female end connects to the WedgeLink AT



Overview

- To send data from an RS-232 device to a WedgeLink AT, the baud rate and communication parameters settings must be the same on both devices
- These parameters may be changed on the WedgeLink AT or the RS-232 device
- The WedgeLink AT parameters can be set manually or by using the “Auto Baud” function

Communication Parameters

- RS-232 communication parameters consists of four variables:

Variables	Options
Baud Rate	Multiple Options
Parity	None, Even, Odd
Data Bits	7 or 8
Stop Bits	1 or 2

- WedgeLink AT default is 9600-N-8-1
  - 9600 baud, No parity, 8 data bits, 1 stop bit

Auto Baud Feature

- This feature is used when the parameters of your RS-232 device are unknown
- The RS-232 device must have a DATA, SEND, or PRINT button to use the Auto Baud feature
  - Your device's data send function may need to be activated
- If the RS-232 device requires a software command to send a measurement, you cannot use the Auto Baud feature

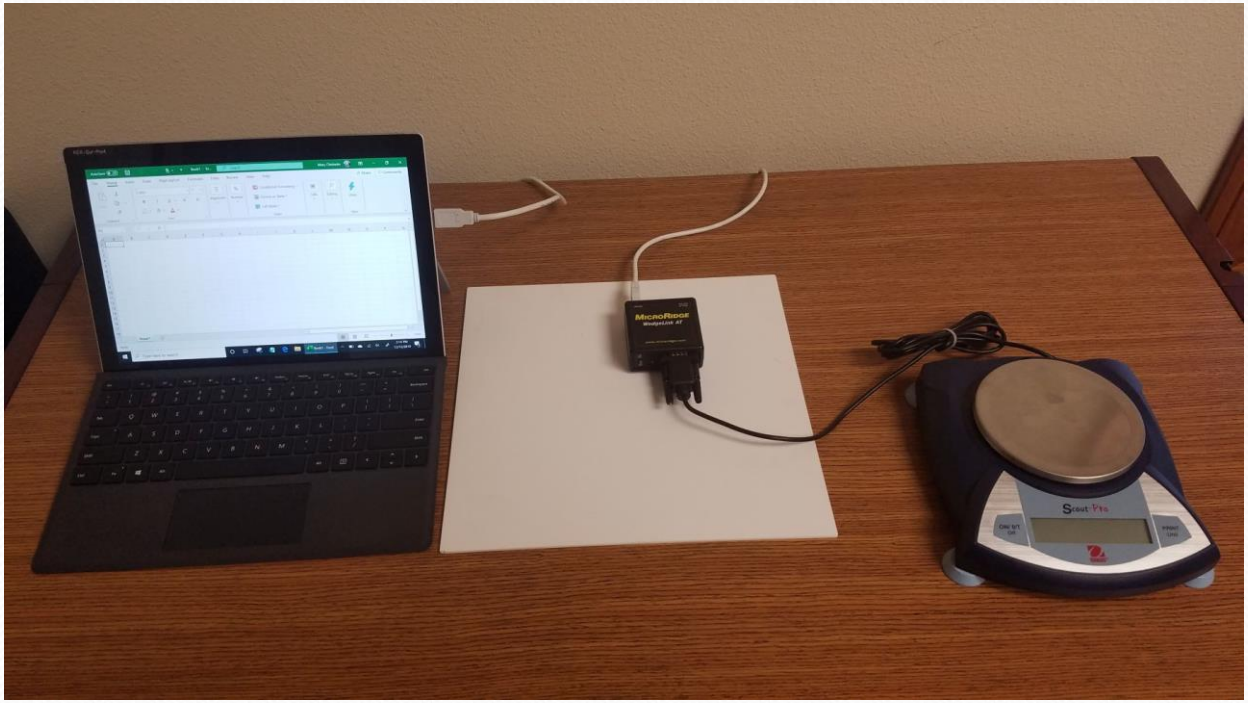
Installation

- Connect the WedgeLink AT to your computer using either the “Wedge” or “RS-232 & Prog” ports
- Wait for the front panel LED to turn off
- Connect your RS-232 serial device to the WedgeLink AT DB9 input port

RS-232 & Prog port

Wedge port

Device Connected



Auto Baud Process

1. Press and release the Reset button on the back of the WedgeLink AT
2. The LED will briefly display red and then display green for 5 seconds
3. Press the RS-232 device “send data” button while the green LED is on

Reset button

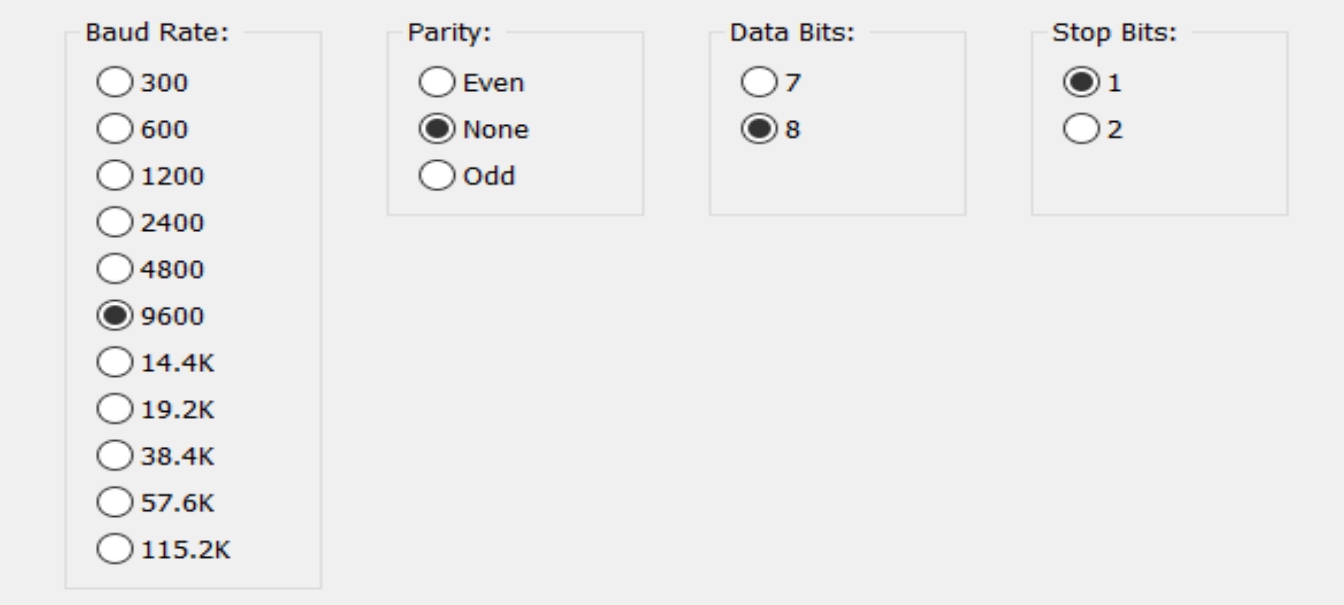
Possible Results

- The results of the Auto Baud process will be indicated by the WedgeLink AT front panel LED
  - LED blinks **GREEN** 5 times
    - Parameters were identified and stored in the WedgeLink AT
  - LED blinks **RED** 5 times
    - Parameters could not be identified, no changes were made to the WedgeLink AT
  - LED turns off without blinking
    - No data was received, no changes were made to the WedgeLink AT
    - Retry process if this occurs

No Data Received

- If the WedgeLink AT is unable to determine the parameters, it is likely due to one of the following reasons:
  - The data cable is not correct for your RS-232 device
  - Not enough data was sent from the RS-232 device
    - 3-8 characters are required to determine the parameters
  - The RS-232 device baud rate is not supported
    - Next slide lists the supported communication parameters

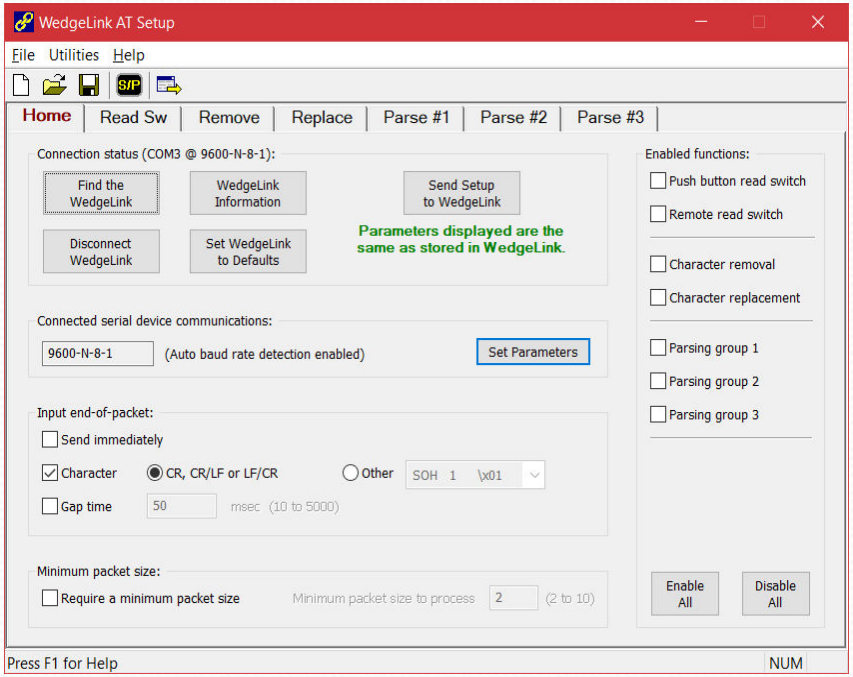
Supported Parameters



9600-N-8-1 factory default parameters selected

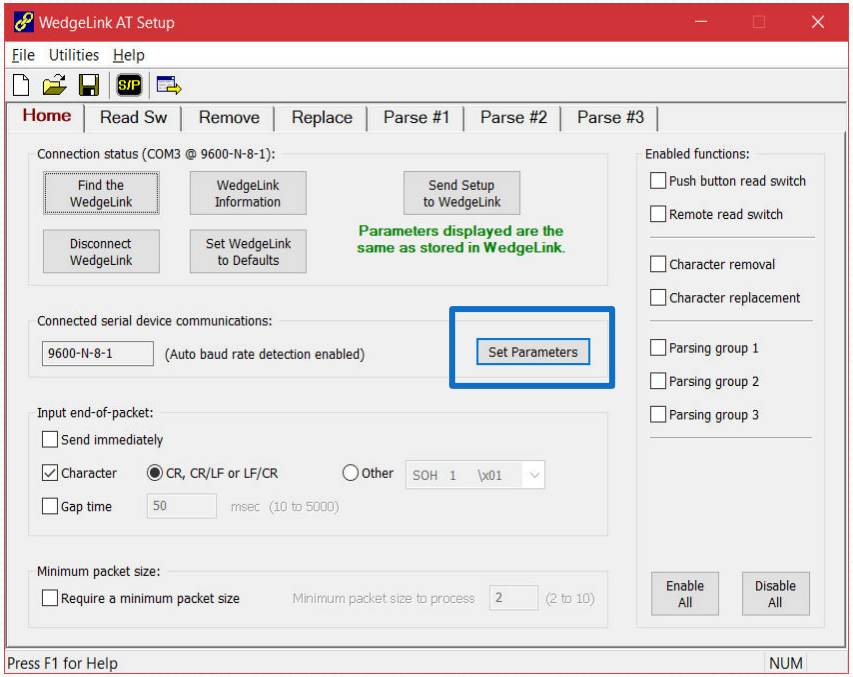
Setup Program

- Communication parameters can be manually set using the WedgeLink AT Setup program
- This program also provides access to the WedgeLink AT's data parsing features
- To use the Setup program, the USB driver must be installed



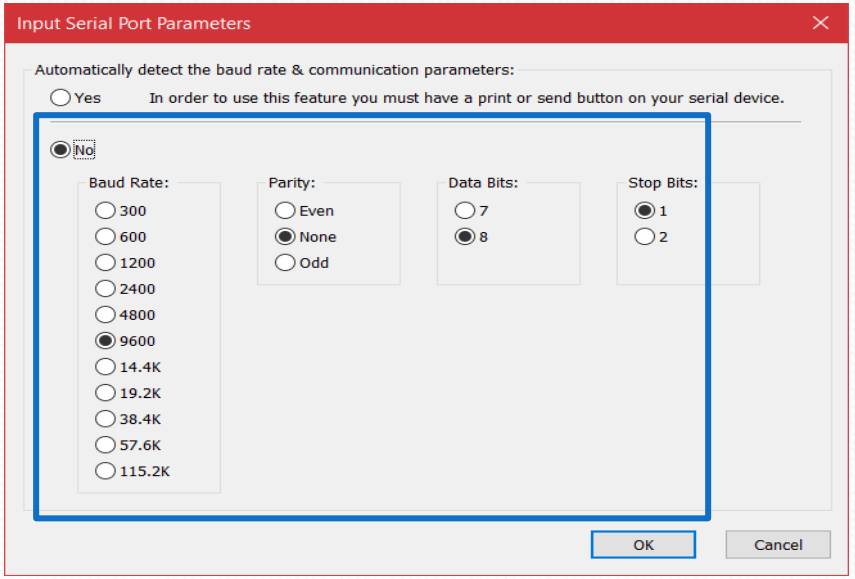
Disable Auto Baud

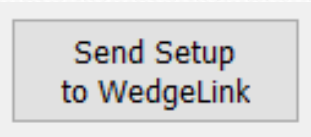
- By default, the Auto Baud feature is enabled on the WedgeLink AT
- Click on the “Set Parameters button on the Home Tab to disable the Auto Baud feature



Manual Setup

- Selecting “No” disables the Auto Baud feature
- Manually select the baud rate, parity, data bits, and stop bits
- To save, return to the Home tab and click this button





Tech Support

- Contact MicroRidge for assistance in using the Auto Baud Rate Detection feature

  - Mon-Fri, 8am-4:30pm PST

    ☎ 541-593-1656

    support@microridge.com