UDR2 Digirule 2U Firmware Updater User Manual

18 December 2020

Introduction

UDR2 is a utility used to install firmware updates on the Digirule 2U. Versions are available for Linux. Mac OS and Windows.

Getting Started

Before running the utility, you need to download from the Digirule 2U website the hex file for the firmware you want to install.

Example firmware file: dr2u.firmware.22sep2020.hex

You also need to know the name of the USB device on your computer to which the Digirule 2U is connected.

Linux

ls /dev/tty*

Example device name: /dev/ttyUSB0

Mac

ls /dev/tty.*

Example device name: /dev/tty.usbserial-DM038QQY

Windows

mode, or use Device Manager

Example device name: COM3

Running the Utility

The general syntax to invoke the utility is:

udr2 [options] <file device

The utility supports the following command-line options:

Option	Function
program	program and verify (default)
verify	verify only (do not update)

Invoking the utility is slightly different depending on which operating system you use. All of these example assume that the utility resides in the current working directory.

Linux

```
pi@rpi0:~ $ ./udr2 < dr2u.firmware.22sep2020.hex /dev/ttyUSB0
Digirule 2U Firmware Updater | 18 Dec 2020 | KD0GLS
Loading hex file... OK
Opening port... OK
Erasing flash... OK
Writing flash... OK
Verifying flash... OK
Closing port... OK</pre>
```

Mac

```
User@imac:~ $ ./udr2 < dr2u.firmware.22sep2020.hex /dev/tty.usbserial-DM038QQY
Digirule 2U Firmware Updater | 18 Dec 2020 | KD0GLS
Loading hex file... OK
Opening port... OK
Erasing flash... OK
Writing flash... OK
Verifying flash... OK
Closing port... OK
```

Windows

```
C:\> udr2 < dr2u.firmware.22sep2020.hex COM3

Digirule 2U Firmware Updater | 18 Dec 2020 | KD0GLS

Loading hex file... OK

Opening port... OK

Erasing flash... OK

Writing flash... OK

Verifying flash... OK

Restarting Digirule... OK

Closing port... OK
```

