

NRC7292 Evaluation Kit

User Guide

(Board Data Editor)

Ultra-low power & Long-range Wi-Fi

Ver 1.2.0
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NEWRACOM, Inc.

NRC7292 Evaluation Kit User Guide (Board Data Editor)

Ultra-low power & Long-range Wi-Fi

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1 Introduction

The Newracom Board Data Editor is a GUI tool for creating, viewing, editing, and validating TX power level board data binary file.

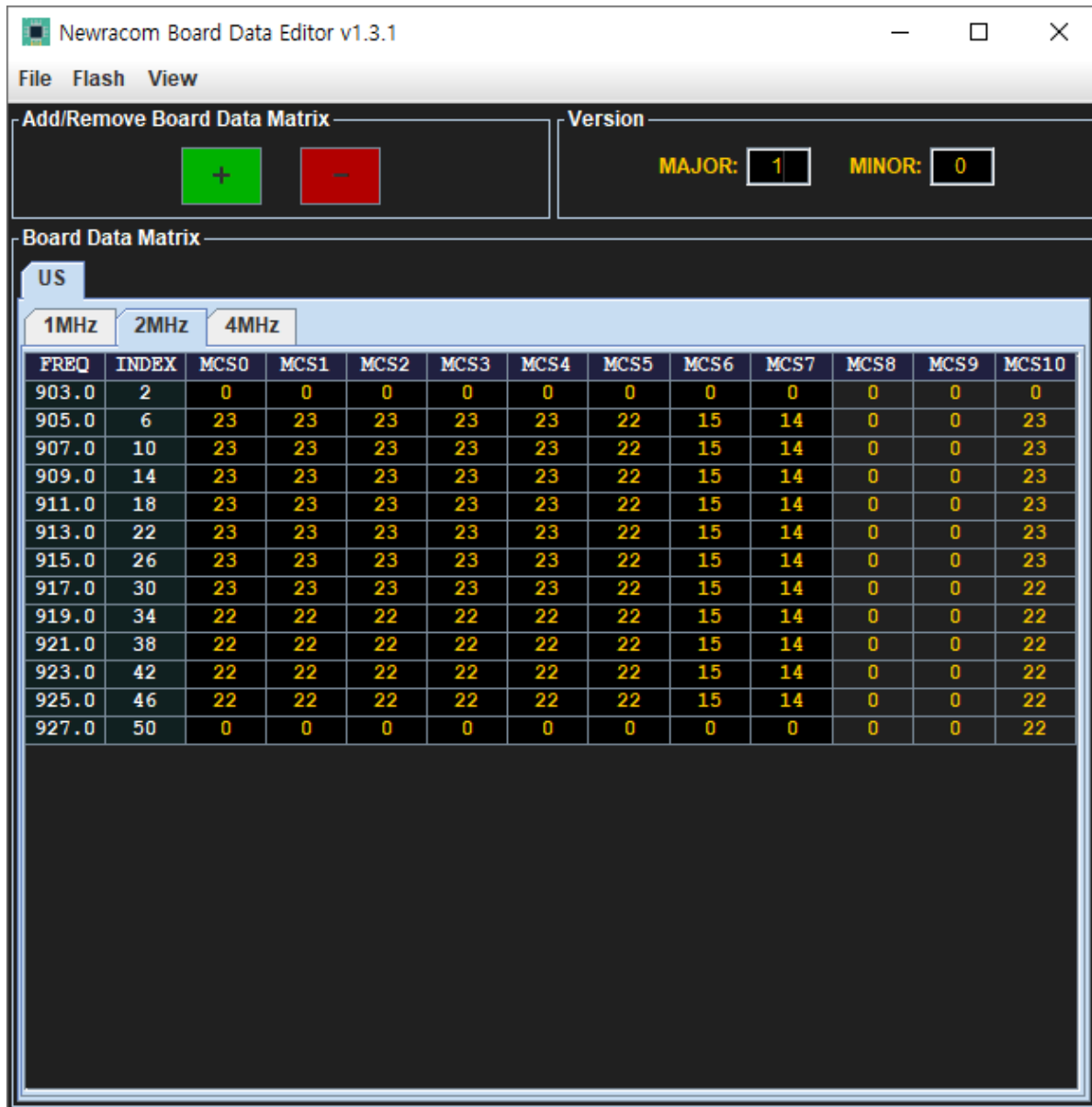


Figure 1.1 Newracom Board Data Editor

2 Usage

2.1 File Menu

The **File** menu at the top right corner of the program contains the following items:

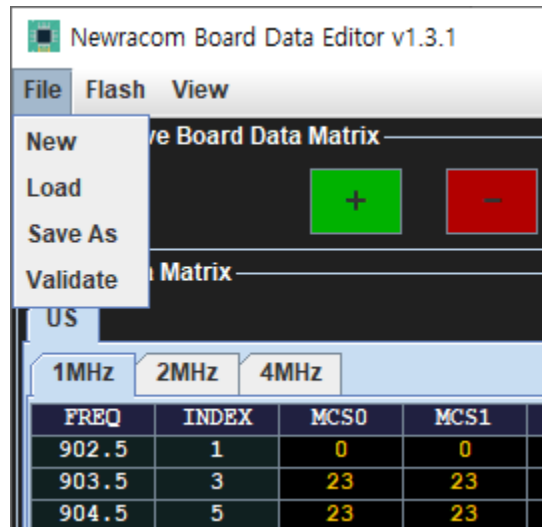


Figure 2.1 File Menu

1. **New:**
 - Create a new board data file.
2. **Load:**
 - Load an existing board data file.
3. **Save As:**
 - Save the current board data file as another file.
4. **Validate:**
 - Checks if an existing file is a valid board data file.

2.2 Flash Menu (Standalone Mode Only)

The flash read-write functionalities contained in the Flash menu are for standalone operation only. For host mode operation, refer to the document UG-7292-015-Transmit_Power_Control.pdf.

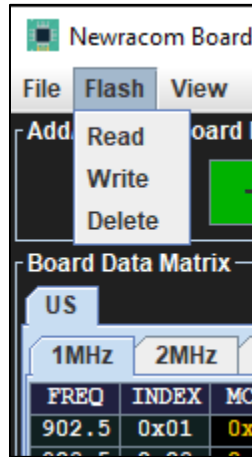


Figure 2.2 Flash Menu

The flash menu contains the following items:

1. Read:

- Read the board data usage flag (bdf_use) and the board data stored from the module flash.

2. Write:

- Write the board data usage flag (bdf_use) and the board data to the module flash.

3. Delete:

- Delete any existing board data on the module flash.

2.3 View Menu

The entries of the board data can be displayed either in decimal base or hexadecimal base.

The base (DEC or HEX) can be selected from the **View** menu:

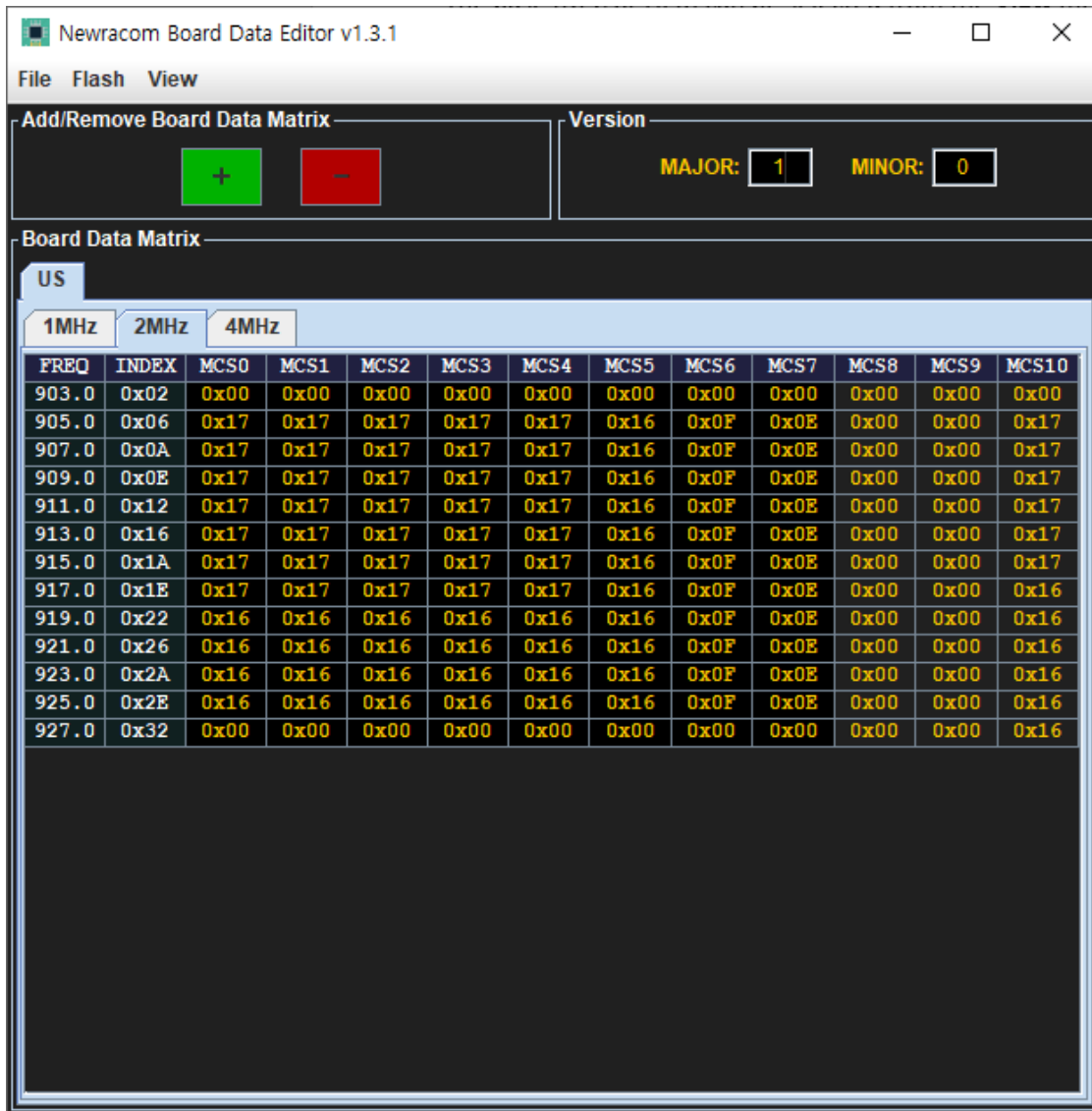


Figure 2.3 View Menu

2.4 Editor

A single data group consists of three data matrices per country code. The **+** button or the **–** button can be used to add or remove a data group. A board data file can consist of multiple data groups but at most one data group per country code is allowed. Each data matrix in a data group corresponds to one of three bandwidths: 1MHz, 2MHz or 4MHz. The data matrix cells correspond to the power levels and can be directly edited using the editor. The background of a given cell will turn red if an invalid value is typed in by the user. All configurable power levels must be given as integers between 1 and 30. A value of 0 corresponds to an invalid (as defined by the user) or illegal (as defined by the 802.11ah specification) configuration parameters. In the latter case, the corresponding cells are not editable, and their values are fixed to be 0.

WARNING: As of the current version, a board data file must contain no more than a single data group. (No multiple data groups corresponding to multiple country codes in a single board data file). Multiple-country support will be added in the future.

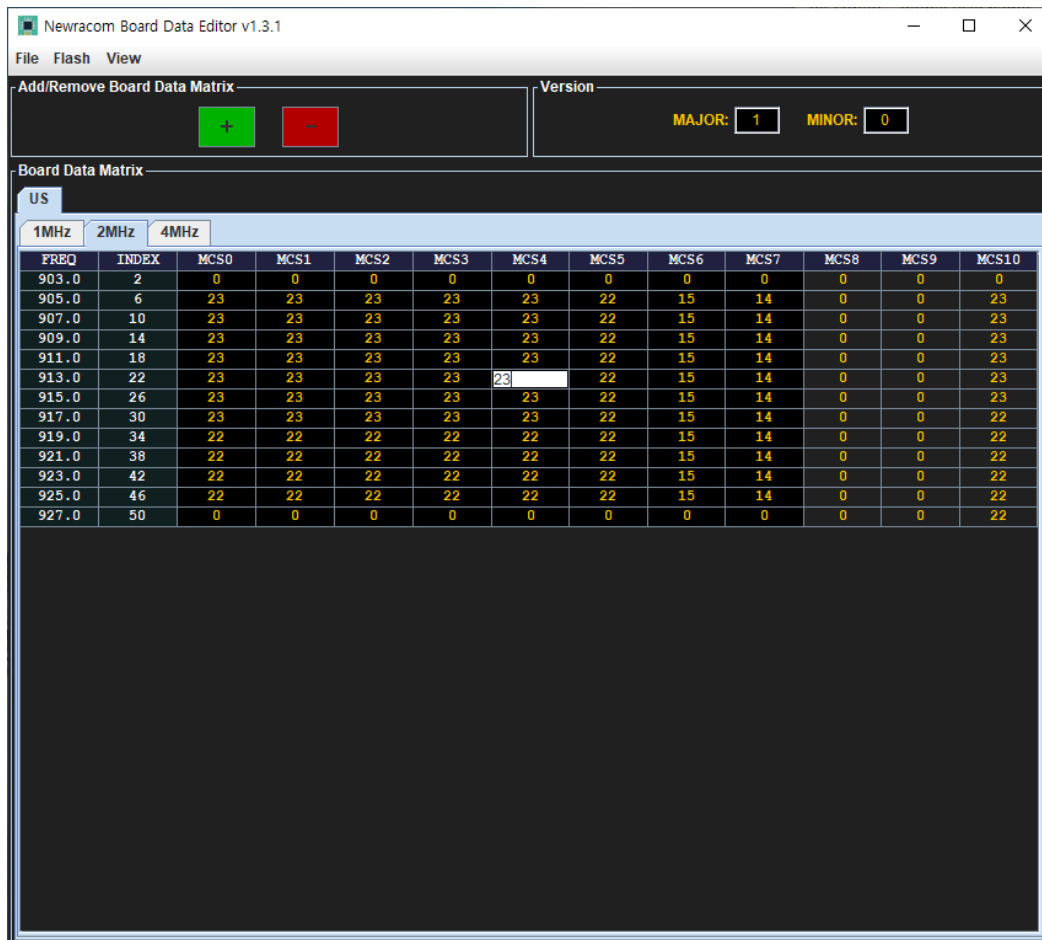


Figure 2.4 Editor

The board data major/minor version numbers (0~255) can be specified using the **Version** fields.

3 Revision History

Revision No	Date	Comments
Ver 1.0	08/20/2020	First version.
Ver 1.1.0	8/27/2020	Flash functionality added.
Ver 1.1.1	8/28/2020	No multiple data groups (multiple country codes) in a single board data file is allowed.
Ver 1.2.0	9/1/2020	Board data deletion functionality added.