



## Advantage2 International Firmware Updates Document Version July 1st, 2020

**Version 1.0.521.** Released for beta testing 7/1/20.

Version 1.0.521\_2MB.uk is for UK keyboards with 2MB v-drives.

Version 1.0.521\_2MB.de is for German, French and Scandinavian keyboards with 2MB v-drives.

Version 1.0.521\_2MB.jp is for Japanese keyboards with 2MB v-drives.

Version 1.0.521\_4MB.uk is for UK with 4MB v-drives.

Version 1.0.521\_4MB.de is for German, French and Scandinavian keyboards with 4MB v-drives.

Version 1.0.521\_4MB.jp is for Japanese keyboards with 4MB v-drives.

New Feature adds [insert] token.

**Version 1.0.517.** Released for beta testing 4/23/20.

Version 1.0.517\_2MB.uk is for UK and French keyboards with 2MB v-drives.

Version 1.0.517\_2MB.de is for German and Scandinavian keyboards with 2MB v-drives.

Version 1.0.517\_2MB.jp is for Japanese keyboards with 2MB v-drives.

Version 1.0.517\_4MB.uk is for UK and French keyboards with 4MB v-drives.

Version 1.0.517\_4MB.de is for German and Scandinavian keyboards with 4MB v-drives.

Version 1.0.517\_4MB.jp is for Japanese keyboards with 4MB v-drives.

New Features:

1. “Hyper” and “Meh” multi-modifier key actions. Send a multi-modifier command (from any key) that can be combined with another non-modifier key to trigger custom shortcuts via 3<sup>rd</sup> party software.

a Hyper = Left Shift + Left Control + Left Alt + Left Windows

• Direct Editing Syntax: [position token]>[hyper]

b Meh = Left Shift + Left Control + Left Alt

• Direct Editing Syntax: [position token]>[meh]

2. “Tap-and-Hold” actions: Use the tap-and-hold action to assign two unique actions to a single key based on how long the key is depressed (choose from a delay of 1ms up to 999ms) The Tap action occurs when the key is pressed and released faster than the timing delay, and the Hold action occurs when the key is pressed and held longer than the timing delay. SmartSet App v1.1.1 (or later) or direct editing required.

a Examples: Caps Lock becomes Control when held for longer than 250ms

• Direct Editing Syntax: [caps]>[caps][t&h250][lctrl]

- b Left Shift becomes Escape when tapped & released in less than 100ms
- Direct Editing Syntax: [Lshift]>[esc][t&h100][Lshift]

\*\*\*Tap-and-hold actions are not designed to be assigned to “conventional” typing keys because they introduce a small timing delay. Not all key actions are supported by tap-and-hold. Keypad access commands are not supported by tap-and-hold

3. “Program Lock”. Use the onboard shortcut Program + Shift + L to disable all onboard programming commands to prevent accidental programming. Use the same command to disable Programming Lock and re-enable onboard programming commands.

#### Bug Fixes:

1. “Disable Macros”. In prior version, if macros are disabled, programming a new macro doesn’t re-enable macro playback automatically.
2. “Onboard Commands conflicting with macros”. Previously if a macro was assigned to Esc, F10 or F11, these keys combined with ProgM key would no longer perform their special SmartSet actions.

**Version 1.0.431.** Release date 11/14/17.

Version 1.0.431\_2MB.uk is for UK keyboards with 2MB v-drives.

Version 1.0.431\_2MB.de is for German and Swedish keyboards with 2MB v-drives.

1. There are now 2MB and 4MB firmware versions for each language model (US, UK, and DE, which is used for German and Swedish models). New production is using exclusively the 4MB firmware version and there are no 4MB updates listed here yet. The bootloaders on 2MB and 4MB keyboards will only work with the correct firmware version, but the user still needs to select the correct version to achieve a successful update.
2. Other than the bootloader change, 2MB and 4MB firmware have identical features.
3. The new 1.0.431 version firmware primarily affects non-US firmware. It fixes wrong keypad-layer actions in UK and DE version for F2 and Win keys when using Win & Mac thumb key modes.