Keycodes Overview

When defining a keymap each key needs a valid key definition. This page documents the symbols that correspond to keycodes that are available to you in QMK.

This is a reference only. Each group of keys links to the page documenting their functionality in more detail.

Basic Keycodes

| Key | Aliases | Description |
|----------------|----------|--|
| KC_NO | XXXXXX | Ignore this key (NOOP) |
| KC_TRANSPARENT | KC_TRNS, | Use the next lowest non-transparent key |
| KC_A | | a and A |
| KC_B | | b and B |
| KC_C | | c and C |
| KC_D | | $\mathtt{d} \ \mathrm{and} \ \mathtt{D}$ |
| KC_E | | e and E |
| KC_F | | f and F |
| KC_G | | g and G |
| KC_H | | h and H |
| KC_I | | i and I |
| KC_J | | j and J |
| KC_K | | ${\tt k}$ and ${\tt K}$ |
| KC_L | | 1 and L |
| KC_M | | ${\tt m} \ {\rm and} \ {\tt M}$ |
| KC_N | | ${\tt n} \ {\rm and} \ {\tt N}$ |
| KC_O | | \circ and O |
| KC_P | | p and P |
| KC_Q | | ${f q} \ { m and} \ {f Q}$ |
| KC_R | | ${\tt r} \ {\tt and} \ {\tt R}$ |
| KC_S | | ${\tt s}$ and ${\tt S}$ |
| KC_T | | t and T |
| KC_U | | u and U |
| KC_V | | $\mathtt{v} \; \mathrm{and} \; \mathtt{V}$ |
| KC_W | | $\mathtt{w} \; \mathrm{and} \; \mathtt{W}$ |
| KC_X | | ${\tt x} \ {\rm and} \ {\tt X}$ |
| KC_Y | | y and Y |
| KC_Z | | ${f z}$ and ${f Z}$ |
| KC_1 | | 1 and ! |
| KC_2 | | 2 and 0 |
| KC_3 | | 3 and # |
| KC_4 | | 4 and \$ |
| KC_5 | | 5 and % |
| KC_6 | | 6 and ^ |

| Key | Aliases | Description |
|-----------------------|--------------------------|--------------------------------------|
| KC_7 | | 7 and & |
| KC_8 | | 8 and * |
| KC_9 | | 9 and (|
| KC_O | | 0 and) |
| KC_ENTER | KC_ENT | Return (Enter) |
| KC_ESCAPE | KC_ESC | Escape |
| KC_BSPACE | KC_BSPC | Delete (Backspace) |
| KC_TAB | _ | Tab |
| KC_SPACE | KC_SPC | Spacebar |
| KC_MINUS | KC_MINS | - and _ |
| KC_EQUAL | KC_EQL | = and + |
| KC_LBRACKET | KC_LBRC | [and { |
| KC_RBRACKET | KC_RBRC |] and } |
| KC_BSLASH | KC_BSLS | \setminus and \mid |
| KC_NONUS_HASH | KC_NUHS | Non-US # and ~ |
| KC_SCOLON | KC_SCLN | ; and : |
| KC_QUOTE | KC_QUOT | and " |
| KC_GRAVE | KC_GRV, KC_ZKHK | ' and ~, JIS Zenkaku/Hankaku |
| KC_COMMA | KC_COMM | , and < |
| KC_DOT | | . and > |
| KC_SLASH | KC_SLSH | / and ? |
| KC_CAPSLOCK | KC_CLCK, KC_CAPS | Caps Lock |
| KC_F1 | | F1 |
| KC_F2 | | F2 |
| KC_F3 | | F3 |
| KC_F4 | | F4 |
| KC_F5 | | F5 |
| KC_F6 | | F6 |
| KC_F7 | | F7 |
| KC_F8 | | F8 |
| KC_F9 | | F9 |
| KC_F10 | | F10 |
| KC_F11 | | F11 |
| KC_F12 | | F12 |
| KC_PSCREEN | KC_PSCR | Print Screen |
| KC_SCROLLLOCK | KC_SLCK, KC_BRMD | Scroll Lock, Brightness Down (macOS) |
| KC_PAUSE | KC_PAUS, KC_BRK, KC_BRMU | Pause, Brightness Up (macOS) |
| KC_FAUSE KC_INSERT | KC_INS | Insert |
| _ | KC_IND | Home |
| KC_HOME | | Page Up |
| KC_PGUP | KC DEI | Forward Delete |
| KC_DELETE | KC_DEL | |
| KC_END | KC DCDN | End Page Down |
| KC_PGDOWN | KC_PGDN | Page Down |
| KC_RIGHT | KC_RGHT | Right Arrow |

| Key | Aliases | Description |
|-----------------|---------|--------------------------------|
| KC_LEFT | | Left Arrow |
| KC_DOWN | | Down Arrow |
| KC_UP | | Up Arrow |
| KC_NUMLOCK | KC_NLCK | Keypad Num Lock and Clear |
| KC_KP_SLASH | KC_PSLS | Keypad / |
| KC_KP_ASTERISK | KC_PAST | Keypad * |
| KC_KP_MINUS | KC_PMNS | Keypad - |
| KC_KP_PLUS | KC_PPLS | Keypad + |
| KC_KP_ENTER | KC_PENT | Keypad Enter |
| KC_KP_1 | KC_P1 | Keypad 1 and End |
| KC_KP_2 | KC_P2 | Keypad 2 and Down Arrow |
| KC_KP_3 | KC_P3 | Keypad 3 and Page Down |
| KC_KP_4 | KC_P4 | Keypad 4 and Left Arrow |
| KC_KP_5 | KC_P5 | Keypad 5 |
| KC_KP_6 | KC_P6 | Keypad 6 and Right Arrow |
| KC_KP_7 | KC_P7 | Keypad 7 and Home |
| KC_KP_8 | KC_P8 | Keypad 8 and Up Arrow |
| KC_KP_9 | KC_P9 | Keypad 9 and Page Up |
| KC_KP_O | KC_PO | Keypad 0 and Insert |
| KC_KP_DOT | KC_PDOT | Keypad . and Delete |
| KC_NONUS_BSLASH | KC_NUBS | Non-US \ and |
| KC_APPLICATION | KC_APP | Application (Windows Menu Key) |
| KC_POWER | _ | System Power (macOS) |
| KC_KP_EQUAL | KC_PEQL | Keypad = |
| KC_F13 | | F13 |
| KC_F14 | | F14 |
| KC_F15 | | F15 |
| KC_F16 | | F16 |
| KC_F17 | | F17 |
| KC_F18 | | F18 |
| KC_F19 | | F19 |
| KC_F20 | | F20 |
| KC_F21 | | F21 |
| KC_F22 | | F22 |
| KC_F23 | | F23 |
| KC_F24 | | F24 |
| KC_EXECUTE | KC_EXEC | Execute |
| KC_HELP | · | Help |
| KC_MENU | | Menu |
| KC_SELECT | KC_SLCT | Select |
| KC_STOP | | Stop |
| KC_AGAIN | KC_AGIN | Again |
| KC_UNDO | | Undo |
| | | |
| KC_CUT | | Cut |

| Key | Aliases | Description |
|-------------------|--------------|------------------------------------|
| KC_COPY | | Сору |
| KC_PASTE | KC_PSTE | Paste |
| KC_FIND | | Find |
| KCMUTE | | Mute (macOS) |
| KCVOLUP | | Volume Up (macOS) |
| KCVOLDOWN | | Volume Down (macOS) |
| KC_LOCKING_CAPS | KC_LCAP | Locking Caps Lock |
| KC_LOCKING_NUM | KC_LNUM | Locking Num Lock |
| KC_LOCKING_SCROLL | KC_LSCR | Locking Scroll Lock |
| KC_KP_COMMA | KC_PCMM | Keypad, |
| KC_KP_EQUAL_AS400 | · - · | Keypad = on $AS/400$ keyboards |
| KC_INT1 | KC_RO | JIS \ and _ |
| KC_INT2 | KC_KANA | JIS Katakana/Hiragana |
| KC_INT3 | KC_JYEN | JIS ¥ and |
| KC_INT4 | KC_HENK | JIS Henkan |
| KC_INT5 | KC_MHEN | JIS Muhenkan |
| KC_INT6 | NO_INIDIN | JIS Numpad, |
| KC_INT7 | | International 7 |
| KC_INT8 | | International 8 |
| KC_INT9 | | International 9 |
| | KC_HAEN | Hangul/English |
| KC_LANG1 | KC_HANJ | Hanja |
| KC_LANG2 | NO_IIANJ | JIS Katakana |
| KC_LANG3 | | JIS Hiragana |
| KC_LANG4 | | JIS Imagana JIS Zenkaku/Hankaku |
| KC_LANG5 | | · |
| KC_LANG6 | | Language 6 |
| KC_LANG7 | | Language 7 |
| KC_LANG8 | | Language 8 |
| KC_LANG9 | MG EDAG | Language 9 |
| KC_ALT_ERASE | KC_ERAS | Alternate Erase |
| KC_SYSREQ | | SysReq/Attention |
| KC_CANCEL | IZO OT D | Cancel |
| KC_CLEAR | KC_CLR | Clear |
| KC_PRIOR | | Prior |
| KC_RETURN | | Return |
| KC_SEPARATOR | | Separator |
| KC_OUT | | Out |
| KC_OPER | | Oper |
| KC_CLEAR_AGAIN | | Clear/Again |
| KC_CRSEL | | CrSel/Props |
| KC_EXSEL | | ExSel |
| KC_LCTRL | KC_LCTL | Left Control |
| KC_LSHIFT | KC_LSFT | Left Shift |
| KC_LALT | | Left Alt |

| Key | Aliases | Description |
|-----------------------|------------------|--------------------------------------|
| | | |
| KC_LGUI | KC_LCMD, KC_LWIN | Left GUI (Windows/Command/Meta key) |
| KC_RCTRL | KC_RCTL | Right Control |
| KC_RSHIFT | KC_RSFT | Right Shift |
| KC_RALT | KC_ALGR | Right Alt (AltGr) |
| KC_RGUI | KC_RCMD, KC_RWIN | Right GUI (Windows/Command/Meta key) |
| KC_SYSTEM_POWER | KC_PWR | System Power Down |
| KC_SYSTEM_SLEEP | KC_SLEP | System Sleep |
| KC_SYSTEM_WAKE | KC_WAKE | System Wake |
| KC_AUDIO_MUTE | KC_MUTE | Mute |
| KC_AUDIO_VOL_UP | KC_VOLU | Volume Up |
| KC_AUDIO_VOL_DOWN | KC_VOLD | Volume Down |
| KC_MEDIA_NEXT_TRACK | KC_MNXT | Next Track (Windows) |
| KC_MEDIA_PREV_TRACK | KC_MPRV | Previous Track (Windows) |
| KC_MEDIA_STOP | KC_MSTP | Stop Track (Windows) |
| KC_MEDIA_PLAY_PAUSE | KC_MPLY | Play/Pause Track |
| KC_MEDIA_SELECT | KC_MSEL | Launch Media Player (Windows) |
| KC_MEDIA_EJECT | KC_EJCT | Eject (macOS) |
| KC_MAIL | | Launch Mail (Windows) |
| KC_CALCULATOR | KC_CALC | Launch Calculator (Windows) |
| KC_MY_COMPUTER | KC_MYCM | Launch My Computer (Windows) |
| KC_WWW_SEARCH | KC_WSCH | Browser Search (Windows) |
| KC_WWW_HOME | KC_WHOM | Browser Home (Windows) |
| KC_WWW_BACK | KC_WBAK | Browser Back (Windows) |
| KC_WWW_FORWARD | KC_WFWD | Browser Forward (Windows) |
| KC_WWW_STOP | KC_WSTP | Browser Stop (Windows) |
| KC_WWW_REFRESH | KC_WREF | Browser Refresh (Windows) |
| KC_WWW_FAVORITES | KC_WFAV | Browser Favorites (Windows) |
| KC_MEDIA_FAST_FORWARD | KC_MFFD | Next Track (macOS) |
| KC_MEDIA_REWIND | KC_MRWD | Previous Track (macOS) |
| KC_BRIGHTNESS_UP | KC_BRIU | Brightness Up |
| KC_BRIGHTNESS_DOWN | KC_BRID | Brightness Down |

Quantum Keycodes

| Key | Aliases | Description |
|--------------|-----------|---|
| RESET | | Put the keyboard into DFU mode for flashing |
| DEBUG | | Toggle debug mode |
| EEPROM_RESET | EEP_RST | Resets EEPROM state by reinitializing it |
| KC_GESC | GRAVE_ESC | Escape when tapped, 'when pressed with Shift or GUI |
| KC_LSPO | | Left Shift when held, (when tapped |
| KC_RSPC | | Right Shift when held,) when tapped |
| KC_LCPO | | Left Control when held, (when tapped |
| KC_RCPC | | Right Control when held,) when tapped |

| Key | Aliases | Description |
|---------------------------|---------|--|
| KC_LAPO KC_RAPC | | Left Alt when held, (when tapped Right Alt when held,) when tapped |
| KC_SFTENT KC_LEAD KC_LOCK | | Right Shift when held, Enter when tapped The Leader key The Lock key |
| FUNC(n) M(n) MACROTAP(n) | F(n) | Call fn_action(n) (deprecated) Call macro n Macro-tap n idk FIXME |

Audio Keys

| Key | Aliases | Description |
|---------------|---------|-----------------------------------|
| AU_ON | | Turns on Audio Feature |
| AU_OFF | | Turns off Audio Feature |
| AU_TOG | | Toggles Audio state |
| CLICKY_TOGGLE | CK_TOGG | Toggles Audio clicky mode |
| CLICKY_UP | CK_UP | Increases frequency of the clicks |
| CLICKY_DOWN | CK_DOWN | Decreases frequency of the clicks |
| CLICKY_RESET | CK_RST | Resets frequency to default |
| MU_ON | | Turns on Music Mode |
| MU_OFF | | Turns off Music Mode |
| MU_TOG | | Toggles Music Mode |
| MU_MOD | | Cycles through the music modes |
| | | |

Backlighting

| Key | Description |
|---------|-------------------------------------|
| BL_TOGG | Turn the backlight on or off |
| BL_STEP | Cycle through backlight levels |
| BL_ON | Set the backlight to max brightness |
| BL_OFF | Turn the backlight off |
| BL_INC | Increase the backlight level |
| BL_DEC | Decrease the backlight level |
| BL_BRTG | Toggle backlight breathing |

Bootmagic

| Key | Aliases | Description |
|-----------------------------|---------|---------------------------------|
| MAGIC SWAP CONTROL CAPSLOCK | | Swap Caps Lock and Left Control |

| Key | Aliases | Description |
|----------------------------------|----------|---|
| | Tillases | <u> </u> |
| MAGIC_CAPSLOCK_TO_CONTROL | | Treat Caps Lock as Control |
| MAGIC_SWAP_LCTL_LGUI | | Swap Left Control and GUI |
| MAGIC_SWAP_RCTL_RGUI | | Swap Right Control and GUI |
| MAGIC_SWAP_LALT_LGUI | | Swap Left Alt and GUI |
| MAGIC_SWAP_RALT_RGUI | | Swap Right Alt and GUI |
| MAGIC_NO_GUI | | Disable the GUI key |
| MAGIC_SWAP_GRAVE_ESC | | Swap ' and Escape |
| MAGIC_SWAP_BACKSLASH_BACKSPACE | | Swap \ and Backspace |
| MAGIC_HOST_NKRO | | Force NKRO on |
| MAGIC_SWAP_ALT_GUI | AG_SWAP | Swap Alt and GUI on both sides |
| MAGIC_SWAP_CTL_GUI | CG_SWAP | Swap Ctrl and GUI on both sides (for macOS) |
| MAGIC_UNSWAP_CONTROL_CAPSLOCK | | Unswap Caps Lock and Left Control |
| MAGIC_UNCAPSLOCK_TO_CONTROL | | Stop treating Caps Lock as Control |
| MAGIC_UNSWAP_LCTL_LGUI | | Unswap Left Control and GUI |
| MAGIC_UNSWAP_RCTL_RGUI | | Unswap Right Control and GUI |
| MAGIC_UNSWAP_LALT_LGUI | | Unswap Left Alt and GUI |
| MAGIC_UNSWAP_RALT_RGUI | | Unswap Right Alt and GUI |
| MAGIC_UNNO_GUI | | Enable the GUI key |
| MAGIC_UNSWAP_GRAVE_ESC | | Unswap ' and Escape |
| MAGIC_UNSWAP_BACKSLASH_BACKSPACE | | Unswap \ and Backspace |
| MAGIC_UNHOST_NKRO | | Force NKRO off |
| MAGIC_UNSWAP_ALT_GUI | AG_NORM | Unswap Alt and GUI on both sides |
| MAGIC_UNSWAP_CTL_GUI | CG_NORM | Unswap Ctrl and GUI on both sides |
| MAGIC_TOGGLE_ALT_GUI | AG_TOGG | Toggle Alt and GUI swap on both sides |
| MAGIC_TOGGLE_CTL_GUI | CG_TOGG | Toggle Ctrl and GUI swap on both sides |
| MAGIC_TOGGLE_NKRO | | Turn NKRO on or off |
| MAGIC_EE_HANDS_LEFT | | Set "Left Hand" for EE_HANDS handedness |
| MAGIC_EE_HANDS_RIGHT | | Set "Right Hand" for EE_HANDS handedness |

Bluetooth

| Key | Description |
|-------------------------|--|
| OUT_AUTO OUT_USB OUT_BT | Automatically switch between USB and Bluetooth USB only Bluetooth only |

Layer Switching

| Key | Description |
|-----------|------------------------------|
| DF(layer) | Set the base (default) layer |

| Key | Description |
|---------------|--|
| MO(layer) | Momentarily turn on layer when pressed (requires KC_TRNS on destination layer) |
| OSL(layer) | Momentarily activates layer until a key is pressed. See One Shot Keys for details. |
| LM(layer, | Momentarily turn on layer (like MO) with mod active as well. |
| mod) | Where mod is a mods_bit. Mods can be viewed here. Example |
| | Implementation: LM(LAYER_1, MOD_LALT) |
| LT(layer, kc) | Turn on layer when held, kc when tapped |
| TG(layer) | Toggle layer on or off |
| TO(layer) | Turns on layer and turns off all other layers, except the default layer |
| TT(layer) | Normally acts like MO unless it's tapped multiple times, which toggles layer on |

Mouse Keys

| Key | Aliases | Description |
|----------------|---------|-----------------------------|
| KC_MS_UP | KC_MS_U | Mouse Cursor Up |
| KC_MS_DOWN | KC_MS_D | Mouse Cursor Down |
| KC_MS_LEFT | KC_MS_L | Mouse Cursor Left |
| KC_MS_RIGHT | KC_MS_R | Mouse Cursor Right |
| KC_MS_BTN1 | KC_BTN1 | Mouse Button 1 |
| KC_MS_BTN2 | KC_BTN2 | Mouse Button 2 |
| KC_MS_BTN3 | KC_BTN3 | Mouse Button 3 |
| KC_MS_BTN4 | KC_BTN4 | Mouse Button 4 |
| KC_MS_BTN5 | KC_BTN5 | Mouse Button 5 |
| KC_MS_WH_UP | KC_WH_U | Mouse Wheel Up |
| KC_MS_WH_DOWN | KC_WH_D | Mouse Wheel Down |
| KC_MS_WH_LEFT | KC_WH_L | Mouse Wheel Left |
| KC_MS_WH_RIGHT | KC_WH_R | Mouse Wheel Right |
| KC_MS_ACCELO | KC_ACLO | Set mouse acceleration to 0 |
| KC_MS_ACCEL1 | KC_ACL1 | Set mouse acceleration to 1 |
| KC_MS_ACCEL2 | KC_ACL2 | Set mouse acceleration to 2 |

Modifiers

| Key | Aliases | Description |
|----------|---------|--------------------------------|
| LCTL(kc) | C(kc) | Hold Left Control and press kc |
| LSFT(kc) | S(kc) | Hold Left Shift and press kc |
| LALT(kc) | A(kc) | Hold Left Alt and press kc |

| Key | Aliases | Description |
|----------|---------------------------|--|
| LGUI(kc) | G(kc), LCMD(kc), LWIN(kc) | Hold Left GUI and press kc |
| RCTL(kc) | | Hold Right Control and press kc |
| RSFT(kc) | | Hold Right Shift and press kc |
| RALT(kc) | ALGR(kc) | Hold Right Alt and press kc |
| RGUI(kc) | RCMD(kc), LWIN(kc) | Hold Right GUI and press kc |
| SGUI(kc) | SCMD(kc), SWIN(kc) | Hold Left Shift and GUI and press kc |
| LCA(kc) | | Hold Left Control and Alt and press kc |
| LCAG(kc) | | Hold Left Control, Alt and GUI and press kc |
| MEH(kc) | | Hold Left Control, Shift and Alt and press kc |
| HYPR(kc) | | Hold Left Control, Shift, Alt and GUI and press kc |
| KC_MEH | | Left Control, Shift and Alt |
| KC_HYPR | | Left Control, Shift, Alt and GUI |

Mod-Tap Keys

| mod when held, kc when tapped LCTL_T(kCTL_T(kC) Left Control when held, kc when tapped LSFT_T(kSFT_T(kc) Left Shift when held, kc when tapped LALT_T(kALT_T(kc) Left Alt when held, kc when tapped LGUI_T(kLCMD_T(kc), LWIN_T(kc), Left GUI when held, kc when GUI_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) Right Control when held, kc when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kALGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kRCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kRCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kRCMD_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | Key Aliases | Description |
|---|--|-------------------------------|
| tapped LCTL_T(kCTL_T(kC) Left Control when held, kc when tapped Left Shift when held, kc when tapped LALT_T(kALT_T(kc) Left Alt when held, kc when tapped LGUI_T(kcCMD_T(kc), LWIN_T(kc), GUI_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) Right Control when held, kc when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kALGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kcCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kcCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped LCA_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | | mod when held kc when |
| LCTL_T(kCTL_T(kc) Left Control when held, kc when tapped Left Shift when held, kc when tapped Left Alt when held, kc when tapped Left GUI when held, kc when tapped Left GUI when held, kc when tapped RCTL_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) RCTL_T(kc) RSFT_T(kc) RALT_T(kalgr_T(kc) RALT_T(kalgr_T(kc), RWIN_T(kc) RGUI_T(kalgr_T(kc), RWIN_T(kc) RGUI_T(kalgr_T(kc), RWIN_T(kc) RGUI_T(kalgr_T(kc), RWIN_T(kc) RGUI_T(kalgr_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kalgr_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped Left Shift and GUI when held, kc when tapped Left Shift and GUI when held, kc when tapped Left Control and Alt when | kc) | |
| when tapped Left Shift when held, kc when tapped Lalt_T(kalt_T(kc) Left Alt when held, kc when tapped LGUI_T(kalt_T(kc), LWIN_T(kc), Left GUI when held, kc when GUI_T(kc), CMD_T(kc), WIN_T(kc) Right Control when held, kc when tapped RCTL_T(kc) Right Shift when held, kc when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kalt_GR_T(kc) Right Alt when held, kc when tapped RGUI_T(kalt_MCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kalt_MCMD_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | , | |
| Left Shift when held, kc when tapped LALT_T(kalT_T(kc) Left Alt when held, kc when tapped LGUI_T(kalMD_T(kc), LWIN_T(kc), Left GUI when held, kc when tapped RCTL_T(kc) Right Control when held, kc when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kalGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kalMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kalMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kalMD_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | | when tapped |
| Lalt_T(kalt_T(kc) Left Alt when held, kc when tapped LGUI_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) RSFT_T(kc) RALT_T(kalgr_T(kc) RALT_T(kalgr_T(kc) RALT_T(kalgr_T(kc) RGUI_T(kc), RWIN_T(kc) RALT_T(kalgr_T(kc) RGUI_T(kalgr_T(kc), RWIN_T(kc) RGUI_T(kalgr_T(kc), RWIN_T(kc) RGUI_T(kalgr_T(kc), SWIN_T(kc) RGUI_T(kalgr_T(kc), SWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kalgr_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | LSFT_T(k 6) FT_T(kc) | |
| tapped LGUI_T(kc), LWIN_T(kc), GUI_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) Right Control when held, kc when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kd)LGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped RGUI_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | | tapped |
| LGUI_T(kc), LWIN_T(kc), GUI_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) RIGHT Control when held, kc when tapped RSFT_T(kc) RIGHT Shift when held, kc when tapped RALT_T(kalGR_T(kc) RIGHT Alt when held, kc when tapped RGUI_T(kalCMD_T(kc), RWIN_T(kc) RIGHT GUI when held, kc when tapped RGUI_T(kalCMD_T(kc), RWIN_T(kc) RIGHT GUI when held, kc when tapped RGUI_T(kalCMD_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | LALT_T(k a) _T_T(kc) | Left Alt when held, kc when |
| GUI_T(kc), CMD_T(kc), WIN_T(kc) RCTL_T(kc) Right Control when held, kc when tapped RALT_T(kc) RALT_T(kalGR_T(kc) RGUI_T(kalGMD_T(kc), RWIN_T(kc) RGUI_T(kalGMD_T(kc), RWIN_T(kc) RGUI_T(kalGMD_T(kc), SWIN_T(kc) RIGHT GUI when held, kc when tapped RGUI_T(kalmalger) Right Control when held, kc when tapped RGUI_T(kalmalger) Right Shift when held, kc when tapped LCA_T(kc) Left Control and Alt when | | tapped |
| RCTL_T(kc) Right Control when held, kc when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kalgr_T(kc) Right Alt when held, kc when tapped RGUI_T(kalgr_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped SGUI_T(kalgr_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | LGUI_T(k& CMD_T(kc), LWIN_T(kc), | Left GUI when held, kc when |
| when tapped RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kalGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kalCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped SGUI_T(kalCMD_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | <pre>GUI_T(kc), CMD_T(kc), WIN_T(kc)</pre> | tapped |
| RSFT_T(kc) Right Shift when held, kc when tapped RALT_T(kalGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kalCMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped LGUI_T(kalCMD_T(kc), SWIN_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | RCTL_T(kc) | Right Control when held, kc |
| when tapped RALT_T(kalGR_T(kc) Right Alt when held, kc when tapped RGUI_T(kalCMD_T(kc), RWIN_T(kc) RGUI_T(kalCMD_T(kc), SWIN_T(kc) Right GUI when held, kc when tapped Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | | when tapped |
| RALT_T(ka)LGR_T(kc) Right Alt when held, kc when tapped RGUI_T(ka)CMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped Left Shift and GUI when held, kc when tapped LCA_T(kc) Right Alt when held, kc when tapped Left Control and Alt when | RSFT_T(kc) | Right Shift when held, kc |
| tapped RGUI_T(k&CMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped LCA_T(kc) Right GUI when held, kc when tapped LCA_T(kc) Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | | when tapped |
| RGUI_T(k&CMD_T(kc), RWIN_T(kc) Right GUI when held, kc when tapped LCA_T(kc) Right GUI when held, kc when tapped kc when tapped LCA_T(kc) Left Control and Alt when | RALT_T(kalGR_T(kc) | Right Alt when held, kc when |
| when tapped Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | | tapped |
| Left Shift and GUI when held, kc when tapped LCA_T(kc) Left Control and Alt when | RGUI_T(k&CMD_T(kc), RWIN_T(kc) | Right GUI when held, kc |
| kc when tapped LCA_T(kc) Left Control and Alt when | | when tapped |
| LCA_T(kc) Left Control and Alt when | SGUI_T(k6)CMD_T(kc), SWIN_T(kc) | Left Shift and GUI when held, |
| = '' ' | | kc when tapped |
| | LCA_T(kc) | Left Control and Alt when |
| held, kc when tapped | | held, kc when tapped |
| LCAG_T(kc) Left Control, Alt and GUI | LCAG_T(kc) | Left Control, Alt and GUI |
| when held, kc when tapped | | when held, kc when tapped |
| | RCAG_T(kc) | |
| when held, kc when tapped | | |

| Key Aliases | Description | |
|----------------------------|---|--|
| C_S_T(kc) | Left Control and Shift when held, kc when tapped | |
| MEH_T(kc) | Left Control, Shift and Alt when held, kc when tapped | |
| HYPR_T(k d) L_T(kc) | Left Control, Shift, Alt and GUI when held, kc when tapped - more info here | |

RGB Lighting

| Key Aliases | Description |
|--------------------------------|--|
| RGB_TOG | Toggle RGB lighting on or off |
| RGB_MODE_FORWARCB_MOD | Cycle through modes, reverse direction when Shift |
| | is held |
| RGB_MODE_REVER RE B_RMO | DCycle through modes in reverse, forward direction |
| | when Shift is held |
| RGB_HUI | Increase hue |
| RGB_HUD | Decrease hue |
| RGB_SAI | Increase saturation |
| RGB_SAD | Decrease saturation |
| RGB_VAI | Increase value (brightness) |
| RGB_VAD | Decrease value (brightness) |
| RGB_MODE_PLAINRGB_M_P | Static (no animation) mode |
| | Breathing animation mode |
| RGB_MODE_RAINB R B_M_R | Rainbow animation mode |
| RGB_MODE_SWIRLRGB_M_S | WSwirl animation mode |
| RGB_MODE_SNAKERGB_M_S | NSnake animation mode |
| RGB_MODE_KNIGHTRGB_M_K | "Knight Rider" animation mode |
| RGB_MODE_XMAS RGB_M_X | Christmas animation mode |
| RGB_MODE_GRADIRNB_M_G | Static gradient animation mode |
| RGB_MODE_RGBTE RG B_M_T | Red,Green,Blue test animation mode |

RGB Matrix Lighting

| Key | Aliases | Description |
|--------------|---------------------|--|
| RGB_TOG | | Toggle RGB lighting on or off |
| RGB_MODE_FOR | WARCB_MOD | Cycle through modes, reverse direction when Shift |
| | | is held |
| RGB_MODE_REV | ER RE B_RMOI | OCycle through modes in reverse, forward direction |
| | | when Shift is held |
| RGB_HUI | | Increase hue |

| Key | Aliases | Description |
|---------|---------|--|
| RGB_HUD | | Decrease hue |
| RGB_SAI | | Increase saturation |
| RGB_SAD | | Decrease saturation |
| RGB_VAI | | Increase value (brightness) |
| RGB_VAD | | Decrease value (brightness) |
| RGB_SPI | | Increase effect speed (does no support eeprom yet) |
| RGB_SPD | | Decrease effect speed (does no support eeprom yet) |

Thermal Printer

| Key | Description |
|-----------|--|
| PRINT_ON | Start printing everything the user types |
| PRINT_OFF | Stop printing everything the user types |

US ANSI Shifted Symbols

| Key | Aliases | Description |
|------------------------|-----------------|-------------|
| KC_TILDE | KC_TILD | ~ |
| KC_EXCLAIM | KC_EXLM | ! |
| KC_AT | | 0 |
| KC_HASH | | # |
| KC_DOLLAR | KC_DLR | \$ |
| KC_PERCENT | KC_PERC | % |
| KC_CIRCUMFLEX | KC_CIRC | ^ |
| KC_AMPERSAND | KC_AMPR | & |
| KC_ASTERISK | KC_ASTR | * |
| KC_LEFT_PAREN | KC_LPRN | (|
| KC_RIGHT_PAREN | KC_RPRN |) |
| KC_UNDERSCORE | KC_UNDS | _ |
| KC_PLUS | | + |
| KC_LEFT_CURLY_BRACE | KC_LCBR | { |
| KC_RIGHT_CURLY_BRACE | KC_RCBR | } |
| KC_PIPE | | |
| KC_COLON | KC_COLN | : |
| KC_DOUBLE_QUOTE | KC_DQUO, KC_DQT | " |
| KC_LEFT_ANGLE_BRACKET | KC_LABK, KC_LT | < |
| KC_RIGHT_ANGLE_BRACKET | KC_RABK, KC_GT | > |
| KC_QUESTION | KC_QUES | ? |

One Shot Keys

| Key | Description | |
|------------|----------------------------------|--|
| OSM(mod) | Hold mod for one keypress | |
| OSL(layer) | Switch to layer for one keypress | |

Swap Hands

| Key | Description | |
|-----------------|--|--|
| SH_T(key) | 0 1 / 0 1 | |
| SW_ON SW_OFF | Turns on swapping and leaves it on. Turn off swapping and leaves it off. Good for returning to a | |
| SH_MON | known state. Swaps hands when pressed, returns to normal when released | |
| SH_MOFF | (momentary). Momentarily turns off swap. | |
| SH_TG SH_TT | Toggles swap on and off with every key press. Toggles with a tap; momentary when held. | |

Unicode Support

| Key | Aliases | Description |
|----------------------|---------|--|
| UC(c) | | Send Unicode code point c |
| X(i) | | Send Unicode code point at index i in unicode_map |
| XP(i, j) | | Send Unicode code point at index i, or j if Shift/Caps is on |
| UNICODE_MODE_FORWARD | UC_MOD | Cycle through selected input modes |
| UNICODE_MODE_REVERSE | UC_RMOD | Cycle through selected input modes in reverse |
| UNICODE_MODE_OSX | UC_M_OS | Switch to macOS input |
| UNICODE_MODE_LNX | UC_M_LN | Switch to Linux input |
| UNICODE_MODE_WIN | UC_M_WI | Switch to Windows input |
| UNICODE_MODE_BSD | UC_M_BS | Switch to BSD input (not implemented) |
| UNICODE_MODE_WINC | UC_M_WC | Switch to Windows input using WinCompose |