

Very lousy plastic, space bar generated clunk, clunk sound, but otherwise nice wireless keyboard if you don't care much about quality of plastic.

Protocol documentation

- [logitech_hidpp_2.0_specification_draft_2012-06-04.pdf](http://6xq.net/git/lars/lshidpp.git/plain/doc/logitech_hidpp_2.0_specification_draft_2012-06-04.pdf) from http://6xq.net/git/lars/lshidpp.git/plain/doc/logitech_hidpp_2.0_specification_draft_2012-06-04.pdf

Linux software

- <https://github.com/pwr/Solaar>

```
dpavlin@blue:/rest/cvs/Solaar$ sudo ./bin/solaar show
```

```
Unifying Receiver
```

```
Device path   : /dev/hidraw3
USB id        : 046d:c52b
Serial        : 656F91A9
Firmware      : 12.01.B0019
Bootloader    : 02.14
```

```
Has 1 paired device(s) out of a maximum of 6.
```

```
Notifications: (none)
```

```
Device activity counters: 1=2
```

```
1: Wireless Touch Keyboard K400
```

```
Codename      : K400
Kind          : keyboard
Wireless PID  : 4024
Protocol      : HID++ 2.0
Polling rate  : 8 ms (125Hz)
Serial number : AC5F5069
Firmware      : RQK 50.01.B0013
```

```
The power switch is located on the edge of top right corner.
```

```
Supports 22 HID++ 2.0 features:
```

```
0: ROOT {0000}
1: FEATURE SET {0001}
2: FEATURE INFO {0002}
3: DEVICE FW VERSION {0003}
4: DEVICE NAME {0005}
5: BATTERY STATUS {1000}
6: REPROG CONTROLS {1B00}
7: REPROG CONTROLS V3 {1B03}
8: WIRELESS DEVICE STATUS {1D4B}
9: unknown:1DF0 {1DF0} hidden
10: unknown:1DF3 {1DF3} internal, hidden
11: unknown:1E00 {1E00} hidden
12: VERTICAL SCROLLING {2100}
13: HI RES SCROLLING {2120}
14: MOUSE POINTER {2200}
15: FN INVERSION {40A0}
16: NEW FN INVERSION {40A2}
17: ENCRYPTION {4100}
18: KEYBOARD LAYOUT {4520}
19: TOUCHPAD FW ITEMS {6010}
20: TOUCHPAD SW ITEMS {6011}
21: TOUCHPAD WIN8 FW ITEMS {6012}
```

```
Has 18 reprogrammable keys:
```

```
0: SHOW DESKTOP => ShowDesktop is FN, reprogrammable
1: METRO APPSWITCH => MetroAppSwitch is FN, reprogrammable
2: METRO SEARCH => MetroSearch is FN, reprogrammable
3: METRO SHARE => MetroShare is FN, reprogrammable
4: METRO DEVICES => MetroDevices is FN, reprogrammable
5: METRO SETTINGS => MetroSettings is FN, reprogrammable
```

| | | |
|------------------|----------------|---------------------------|
| 6: Previous | => Previous | is FN |
| 7: Play/Pause | => Play/Pause | is FN |
| 8: Next | => Next | is FN |
| 9: Mute | => Mute | is FN |
| 10: Volume Down | => Volume Down | is FN |
| 11: Volume Up | => Volume Up | is FN |
| 12: MEDIA PLAYER | => Music | nonstandard, reprogrammab |
| 13: Lock PC | => WindowsLock | nonstandard, reprogrammab |
| 14: SLEEP | => Sleep | nonstandard, reprogrammab |
| 15: LEFT CLICK | => LeftClick | mse |
| 16: LEFT CLICK | => LeftClick | mse |
| 17: RIGHT CLICK | => RightClick | mse |

Battery: 90%, discharging.

Firmware update under Linux

- <https://github.com/hughsie/fwupd>
- <https://blogs.gnome.org/hughsie/2017/05/22/updating-logitech-hardware-on-linux/>