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(57) Abstract :

The present invention relates to a programmable hardware keypad (101) featuring customizable mechanical keys (102), a microcontroller (103) for onboard shortcut mapping, a rotary encoder (104) for profile navigation, an OLED display (105) for real-time visual feedback, and a USB-C interface (106) for power and data transfer. It enables users to assign and execute software shortcuts efficiently across platforms without relying on host-side software. The keypad offers standalone functionality, firmware-based profile storage, and modular expandability for enhanced productivity and user customization.

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