Aurora Works Zephyr 87 (TKL)

Product Specification Sheet — Rev 1.0

Mechanical & Dimensions

Parameter	Value
Layout	ANSI TKL (87 keys); ISO kit optional
Dimensions (L×W×H)	365 × 138 × 38 mm (front height 18 mm without feet)
Typing Angle	Fixed 6° (clip-on feet add 2°)
Weight	≈ 980 g
Case Material	Fiber-reinforced polycarbonate top (frosted) + aluminum bottom shell
Plate	Laser-cut steel (1.5 mm) for crisp feedback
Mounting System	Top-mount with silicone isolation pads
Stabilizers	Plate-mount, pre-tuned; 6.25U space compatible
Cable Channels	Internal cable guide supports left/center/right exit

Electronics & PCB

Parameter	Value
PCB	1.2 mm FR4, ENIG; north-facing LEDs; ANSI by default
Hot-swap	Optional hotswap version; default PCB is solder-only for durability
Microcontroller	ATmega32U4 (QMK classic), 32 KB Flash, 2 KB RAM
NKRO	Full NKRO via USB; 6KRO via Bluetooth

Connectivity & Performance

Parameter	Value
USB	USB-C (detachable), 1000 Hz polling, NKRO
Bluetooth	Bluetooth 5.1, multi-host (3 devices), 125 Hz
Battery	2000 mAh Li-Po; up to 100 h no-LED / 25 h mixed (est.)
OS Compatibility	Windows / macOS / Linux; hardware Win/Mac toggle

Firmware, Layers & Macros

Parameter	Value
Firmware	QMK (VIA JSON available)
Layers	3 default (Base, Fn, Mac); user-expandable
Macro Engine	QMK Macros; on-the-fly recording (Fn+Rec)
Game Mode	Windows-key lock (USB only)
Fn Layer	F-row media, RGB toggles, Bluetooth device cycling
Mac Layer	Command/Option swap, function shortcuts
Encoder (optional kit)	Scroll or volume with press-to-mute

Keycaps & Lighting

Parameter	Value
Keycaps	ABS shine-through, OEM profile, laser-etched legends
Backlighting	White LED (single-color), 5-level brightness, per-zone
Underglow	None (weight-saving)

Acoustics & Damping

Parameter	Value
Case Pad	Silicone base pad
Plate Tape	Pre-applied PE strip to reduce ping

Packaging & Compliance

Parameter	Value
In the Box	Keyboard, USB-C cable, keycap puller, spare feet, documentation
Warranty	12 months limited warranty
Compliance	FCC, CE, RoHS
Operating Range	0–40 °C, 20–80% RH
Model / SKU	Zephyr 87 / AW-ZE87-CLR / UPC 88999-00087
Note	Dual-mode prioritizes portability; for the lowest latency use wired USB.

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