

# Aurora Works — Nova 75 (75%)

Product Specification Sheet ■ Rev 1.0

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The Aurora Works Nova 75 delivers a compact 75% layout with arrow keys and a function row in a tight footprint. Featuring gasket-mount flex, a polycarbonate plate, and tri-mode wireless connectivity paired with a programmable rotary encoder, the Nova 75 is a versatile daily driver for both creators and gamers.

## Mechanical & Dimensions

Layout	75% (84 keys) with rotary encoder (top-right)
Dimensions (LxWxH)	327 × 136 × 35 mm (front height 19 mm)
Typing Angle	6.5° fixed
Weight	≈ 1.20 kg
Case Material	Al-Mg alloy frame; stainless steel internal weight
Plate	Polycarbonate (1.5 mm) for soft landing
Mounting System	Elastic gasket mount with long-slot flex cuts
Stabilizers	PCB screw-in; tuned; 7U spacebar supported via alt kit

## Electronics & PCB

PCB	1.6 mm FR4, ENIG; south-facing RGB; 5-pin MX support; per-switch diodes
Hot-swap Sockets	Kailh v2; 3/5-pin
Microcontroller	ARM Cortex-M4 (STM32F303)
Encoder	24-detent with push; remappable via VIA
Daughterboard	USB-C with ESD protection; JST ribbon

## Connectivity & Performance

USB	USB-C, 1000 Hz polling
2.4 GHz Wireless	Dongle included, 500 Hz polling (power-optimized)
Bluetooth	Bluetooth 5.2; 3 devices; 125 Hz
Battery	4000 mAh Li-Po; up to 150 h no-RGB / 35 h mixed (est.)
OS Compatibility	Windows / macOS / Linux; hardware Mac/Win slider

## Firmware, Layers & Macros

Firmware	QMK / VIA; DFU bootloader
Layers	6 default (Base, Nav, Media, Numpad overlay, Mac, Gaming)
Macro Engine	On-device record/play; time-based triggers; per-profile storage
Profile Slots	5 onboard; encoder behavior per profile
Key Scan	1 kHz scan; adaptive debouncing
Nav Layer	IJKL arrows, Home/End/PgUp/PgDn on right cluster
Numpad Overlay	Num row + UHJKM for operators, toggled with Fn+N
Encoder Functions	Volume (default), timeline scrub (profile 2), brush size (profile 3)

## Keycaps & Lighting

Keycaps	PBT dye-sub, XDA profile, 1.5 mm thickness
Legend Method	Sublimated legends, fade-resistant
Backlighting	Per-key RGB (south-facing) + side glow bars
Effects	Reactive, Wave, Ripple, Type Heatmap; per-key mapping in VIA

## Acoustics & Damping

Foam Stack	IXPE switch foam + Poron plate foam + EVA case foam
Tape Mod	Factory PCB tape mod pattern (removable)
Stabilizer Shims	EVA pads under 2U keys

## Packaging & Compliance

In the Box	Keyboard, 2.4G dongle, USB-C cable, encoder knob (anodized), keycap & switch puller
Warranty	24 months limited warranty
Compliance	FCC, CE, RoHS, REACH
Operating Range	0–40 °C, 20–80% RH
Model / SKU	Nova 75 / AW-NV75-GRY / UPC 88999-00075
Note	Polling rate and lighting strongly affect battery life in wireless modes