



Accessory Paper Tray

Project Timeline: 19 Months

DESIGN AND DEVELOPMENT

- Keytronic-designed with ~35 custom injection molds
- All components sourced and finalized by Keytronic
- Full case design with tooling and mold flow analysis
- Mechanical design optimized for manufacturability and tooling
- CAD translated into HP Solid Designer format
- First article and window studies done in-house
- DVT testing and qualification per customer specs
- Semi-automated SPC fixture design and development
- Custom packaging with EPS caps
- Continuous design updates and Keytronic-led modifications
- Gear train co-development and manufacturing review
- Extensive tooling changes managed throughout development
- In-line paper feed and electrical interface test process implemented
- Full NPI release:
 - Breadboard builds, SLA prototypes
 - Pre-production builds and prototype tooling
 - Production release with final tooling/processes
 - Manufacturing release (MR)



OVERVIEW

This option for an inkjet color printer line includes a 250-sheet accessory paper tray that more than doubles the existing media capacity or serves as a second media source. It supports A4 (210 x 297 mm), A5 (148 x 210 mm), and custom media sizes ranging from 148 to 216 mm in width and 190 to 297 mm in length. The design features an integrated paper tray and feed mechanism, along with built-in docking components for seamless printer interface connectivity.



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