

Custom Manufacturing & Logistics

The backbone of any application deployment is the hardware chosen to support it. Whether software runs in data centers, on edge devices, or in the cloud, the foundational systems can make or break performance and reliability.

AHEAD develops purpose-built hardware that's custom-designed and integrated for your technology and the users that rely on it. Designed with form, fit, and function front of mind, our engineers are highly skilled at maximizing your technology's performance, scalability, and product lifecycle.

When you work with AHEAD for your end-to-end manufacturing program, you have access to in-house global logistics experts and our Hatch platform for hardware supply chain orchestration. Hatch is the industry's most advanced toolset for clients to manage their complex hardware program.

Client Challenges & AHEAD Solutions

AHEAD offers solutions to address your complex hardware challenges

- **Variable Product Mix:** Configurable BOM to enable order-level customizations with tested and approved components
- **Revision Control:** Software and firmware versions locked down with strict engineering change and approval process Limited skill sets and resources available to lead
- **Order Transparency:** Real-time view of the order-to-fulfillment process by production work center, shipments in transit, and delivered
- **Lifecycle Management:** End-of-life roadmaps tracked at the component-level with risk scoring for impending EOL dates
- **Global Orchestration:** In-house teams to manage country certifications, consult on exportation requirements, and handle in-transit roadblocks

Streamlining the Hardware Experience

From new product introduction through last-mile delivery, clients value the high-touch and impactful experience only AHEAD provides.



Design & Set Up

- Consultative engineering
- Value analysis
- New product architecture
- Design for manufacturing



Manufacturing & Supply Chain

- Configurable bill of materials
- Component traceability & data harvesting
- Automated image, test, and verification
- Work in progress visibility



Distribution & Logistics

- Customized inventory programs
- Turnkey global exportation
- Warranty program execution
- Reverse logistics



Lifecycle Management

- Live hardware support
- Sustaining system engineering
- Component EOL tracking
- Engineering change management



Ease the burden of managing hardware operations with Hatch, a robust platform to orchestrate your entire hardware supply chain.

From procurement through last-mile delivery, Hatch brings transparency to every facet of hardware engineering, manufacturing, and logistics. It's a lifeline for hardware teams trying to juggle the complexities of order management, product lifecycles, and 24/7 customer support.

Make informed decisions at a glance:

Real-time visibility across order processing, inventory, logistics, warranties, and harvested asset data

Initiate and track product changes throughout its lifecycle:

See detailed historical software, firmware, and component updates, plus EOL dates with risk assessments for proactive planning

Improve your customer satisfaction:

Reduce response time with customer data at your fingertips about orders, shipments, warranties, returns, and more

Automate processes and reporting:

APIs developed to integrate Hatch with popular ERP platforms and productivity tools allow bi-directional data exchange to streamline routine activities

Why AHEAD?

Building on three decades of experience and product deployments in 185 countries, the AHEAD custom manufacturing team provides advanced engineering, manufacturing, and logistics services for global software companies and service providers that deploy their technology as integrated hardware/software solutions. We integrate clients' hardware solutions in Chicago, IL, and The Netherlands, in ISO 9001:2015 and ISO 13485:2016 certified facilities using our award-winning Forge manufacturing infrastructure to automate clients' scalable manufacturing requirements for faster time to market.

Whether you're launching a new product or looking to refresh an existing one, take the first step towards solving your complex product requirements and streamlining your hardware operations.

Talk to AHEAD

AHEAD

Accelerate Your Impact

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Learn more at
www.ahead.com