

Cadence Dytran enables manufacturers to virtually validate complete electronic assemblies and packaging systems before physical testing. By simulating drop and impact events, engineers can optimize product design, foam cushions, and thermoformed trays, reducing redesign iterations, qualification failures, development cost, and ensuring products arrive safely throughout the logistics journey.

With list of benefits point

Key Benefits

- **☐ Virtualize Complete Product Assemblies**
Simulate hundreds to thousands of interacting components in a single model.
- **☐ Optimize Packaging Design**
Improve foam cushions, thermoformed trays, and corrugated box configurations.
- **☐ Reduce Design Iterations**
Minimize Engineering Change Orders (ECO) and repeated redesign cycles.
- **☐ Eliminate Over-Design & Under-Design**
Achieve the right balance between product protection and packaging cost.
- **☐ Improve First-Pass Qualification Success**
Increase confidence in customer drop tests and packaging validation.
- **☐ Reduce Physical Prototypes**
Validate designs virtually before investing in tooling and laboratory testing.
- **☐ Protect Sensitive Electronic Components**
Evaluate the integrity of PCBs, connectors, heat sinks, and internal assemblies during impact.
- **☐ Shorten Time-to-Market**
Accelerate product development and packaging approval processes.
- **☐ Lower Development & Logistics Costs**
Reduce packaging material usage, tooling modifications, and warranty risks.

- **□ Ensure Reliable Product Delivery**

Help products survive the entire logistics journey—from factory floor to customer site.