

Allegro Pulse

Control, insights, and metrics for your work-in-progress designs

Meetings, ad-hoc questions, and manual status reports are error prone and pull engineers away from the design process. But the data and metrics you're asking for are crucial to achieving design success. The Cadence® Allegro® Pulse tool connects management, engineering, and other business stakeholders to work-in-progress design data, ensuring everyone has near-real-time insights early in the project. Together they can contribute to the design in a way that doesn't burden the teams. Managers can see at a glance whether projects are on schedule, meeting cost targets, and standards compliant—while engineers have all the project specifications they need inside the design environment, not a spreadsheet. Parts compliance is guaranteed by defining preferred parts early and enforcing their selection through the design process. Allegro Pulse gives you the metrics and insights you need to shorten design cycles and time to market, rein in costs, and predict and mitigate risks before they ruin your project.

Overview

The real power of an organization is in the expertise of every member of the team. These experts need to understand every step of the design process if they are to contribute their best to the project. You need to understand the status of their tasks and you need the confidence of knowing the job is getting done right from the beginning. That's why design reviews are essential before building prototypes and generating manufacturing data. But gathering insights about a design project and analyzing them can be a very tedious manual process for you and your engineers. Any time spent away from the design in meetings or documenting issues threatens to jeopardize the entire project. Metrics and analysis cannot come at the expense of design productivity and efficiency.

Allegro Pulse provides a single unified platform for all your design analysis. Near-real-time metric collection, issue tracking, preferred parts, and IP management for work-in-progress design data helps your team to



A central dashboard to track key performance indicators, issues, and design metrics graphically and textually provides direct insights into the status of your projects, ensuring cost, parts compliance, and schedule targets are met.

meet or exceed cost and time goals. Providing insights and analysis to everyone in their native environment at every stage makes design project management pain free.

Get an Accurate Picture

Allegro Pulse analyzes and collects data on your work-in-progress designs in near real time, so all members of

the project team have the insights they need to ensure a successful project. Data on over 50 out-of-the-box metrics, as well as your custom metrics, are collected and displayed in easy-to-use dashboards to assist with forecasting and project management. Control costs early in the design process, without compromising on functionality or manufacturability, by pre-defining your preferred parts

list for projects and know instantly if utilization is out of scope with the project requirements.

- Custom and out-of-the-box metrics for your design are aggregated to project-, individual-, team-, and organization-level dashboards to provide a quick, easy-to-understand snapshot of status for the entire project team.
- Manage preferred part usage in designs by pre-selecting parts and tracking parts in designs to ensure parts lists are being followed.
- Optimize parts selection across all designs to save costs on not just one, but all designs.

Predict, Assess, and Mitigate Risk

By establishing and measuring key performance indicators (KPIs) for your projects, you can easily track milestones and goals to ensure everything is moving ahead smoothly. Metrics are compiled in dashboards on a per-project and per-user basis. If there are any problems, you'll know about them before they become a

major crisis. Allegro Pulse will help you track those issues, too, so you can ensure they're addressed completely.

- Gather 50 out-of-the-box project metrics and your own custom metrics on your designs automatically
- Visualize the metrics in a simple-to-understand dashboard and track progress against your KPIs
- Flag and track any issues with the project to ensure they're completely resolved early in the project and don't become late-stage crises

A Single Source of Truth

By integrating directly with the Allegro design environment and external systems like ERP, Allegro Pulse provides the information designers need in an easy-to-use format in the context that matters. They'll spend less time monitoring multiple systems, less time in meetings, and more time designing. Extended members of the project team can access information about work-in-progress designs through the browser in real time, so they're always informed without burdening the design team

- Designers don't need to leave their design environment to view team contributions, nor do they have to manually generate reports or update the status of the design for other team members
- Integrate with ERP and other non-electrical CAD systems to provide all relevant design data in a single location with context
- Non-engineers can access design insights through a browser without the need for a design environment

Shorten Design Cycles and Meet Project Timeline Goals

The institutional knowledge, existing IP, and compound experience you and your team have is why you lead the industry, and others follow. Your competition can buy the same tools, but they'll never be able to buy your experience. So leverage it. Reuse your existing known-good design IP to do the impossible, faster. Share documents and knowledge in searchable discussions for your project so your experts can collaborate on what no individual could do on their own.

Key Features and Benefits

Integrated in the Design Environment	Designers can access all project data from inside the design environment, relieving the design team of the burden of monitoring numerous disconnected systems.
Project Metrics	Automatically gather and generate data on your design with 50 standard out-of-the-box project metrics and your own custom metrics.
Project and User Dashboards	Aggregate project and user metrics into customizable dashboards. Define and track KPIs for projects and users.
Issue Tracking	Log and track issues inside of the Allegro design environment or in the Allegro Pulse environment.
Issue Dashboard	Display issues in a dashboard for the entire project to track all issues to closure and ensure none are overlooked.
Strategic Parts List (SPL) Management	Improve part selection cost, compliance, and manufacturability by pre-selecting and assigning parts to projects before the design process begins.
Parts Usage Analysis	Automatically find parts in your designs that aren't on your SPL so that they can either be replaced or the SPL can be updated.
IP Reuse	Ensure known-good IP is used whenever possible by collecting and storing all project-related IP in a single searchable location. By reusing your design IP, you can reduce your team's design time and improve manufacturability.
Discussion Platform	By bringing project discussions out of email and into a central platform, your team has a single, searchable platform for all the information they need to ensure project success.
Document Storage	Store all documents related to your project in a single environment so the entire team can always find the most accurate and up-to-date information with ease.
Integrations	Integrate directly with the Allegro design environment and external ERP and other non-electrical CAD systems. Provide your team with a more complete picture of the entire project, earlier and in context.
Browser Environment	Browser-based access for non-engineers allows the entire design team to benefit from data and insights.

Track issues to closure and ensure they're resolved early and fully, never sneaking into a final product

- Reuse existing design IP that you know is production proven to increase reliability and accuracy while shortening overall design time
- Collaborate on the design with designers and non-designers alike by sharing documents, thoughts, and ideas in a centralized and common searchable discussion platform
- Track issues in the project to ensure they get resolved and don't find their way into production

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