

## Gigler Elektronik GmbH increases its production efficiency with the innovative data management platform PCB-I 365



Today's manufacturing industry is faced with the challenge of having to offer ever shorter delivery times and increase production efficiency.

### [EMS service provider Gigler Elektronik GmbH](#)

Gigler Elektronik develops and manufactures electronics, mechanics and cable products with about 75 employees on behalf of customers.

The assemblies are realized from batch size 1 (sample production) up to 500,000 pieces/year at the Konzell plant (Germany) and at the Cegled plant (Hungary). More than 2200 different assemblies and devices are produced with a very modern and broad-based machine park.

The customers come from the following sectors: industrial electronics, railway technology, and automotive.

In addition to well-trained and motivated employees, plant technology and a well-developed customer/supplier network, the family-owned company increasingly sees software tools as decisive for the company's success in times of digitization.

The challenge of an EMS company is to implement product implementation as seamlessly as possible.

### **Challenge for digitization in the EMS**



industry. In addition to the SAP merchandise management system, layout and CAD programs, a solution was sought to manage the following topics:

- To be able to import CAE/CAD data from a wide variety of layout systems, output it
- Audit-proof digital data management for Industry 4.0
- Comprehensible transparent change management with targeted information flow
- Data optimization and playback of external data (images, parts lists, 3D data, electrical information)
- Convert data into the required formats for PCB manufacturers, equipment manufacturers, assembly and test machines
- Data interfaces to humans and production machines
- To simulate layouts for feasibility and to identify defects in advance Goal: 0-error product design in coordination with the developers and customers
- Possibility of communication of the analysis data with the customers
- Output electronic work instructions in real time (paperless production)
- Possibility of integration with existing machines and IT solutions in a holistic process view over the entire workflow.
- Expansion of product/process transparency
- Use of web-based data sources from external network companies (data sheets, simulation data, availability)
- Ensure data security of sensitive customer data at all times

After a market analysis, Gigler opted for Easylogix's PCB-I 365 cloud management platform, which works in conjunction with PCB-Investigator and has been integrated directly into Easylogix's CAD/CAM software.

With this tool, Gigler Elektronik has created the opportunity to create the requirements for a fail-safe and rational implementation.

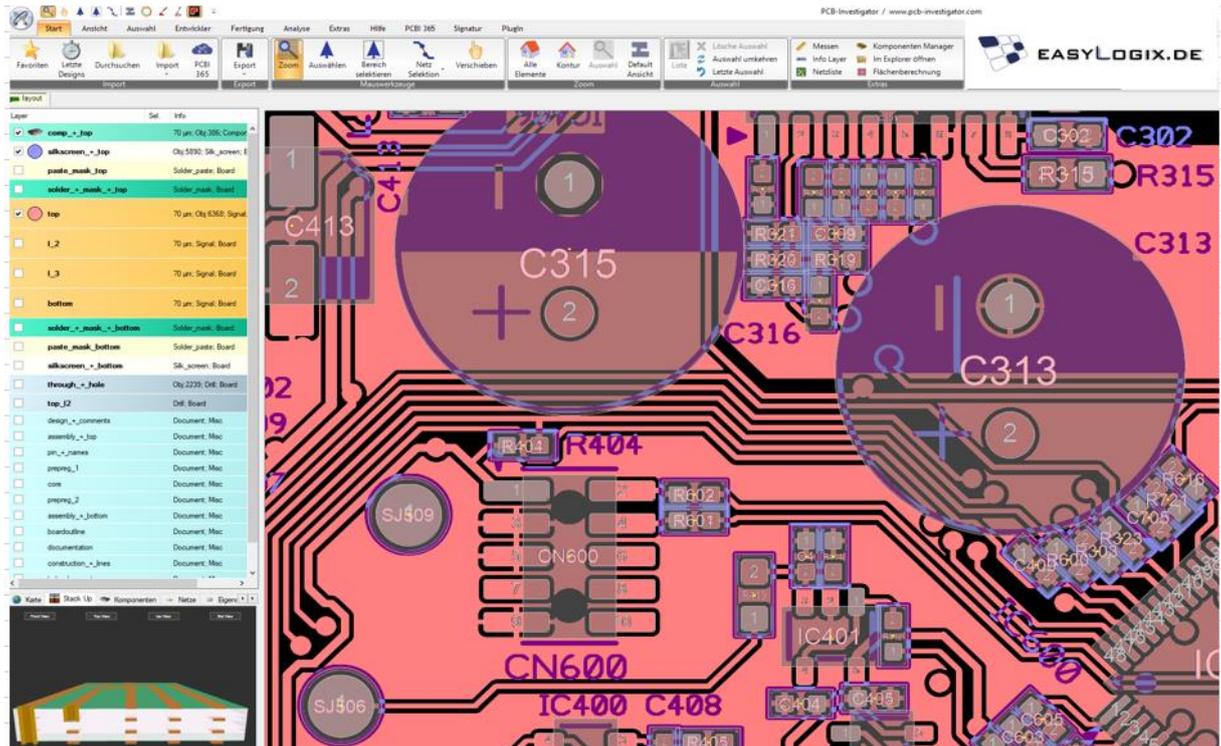
The introduction was tackled in small steps and gradually built up. Thanks to the competent support of Easylogix, the customer can be offered added value, as the assemblies can be analyzed in advance. Gigler usually gets data in data format such as B: ODB++, IPC2581, GenCAD, Gerber 274x, PDF, Excel data etc. the information you need.

Using a workflow, different internal or external bodies generate different actions on the same data status. The real-time exchange and provision of information brings advantages for customers in product quality, transparency and throughput time.

Employees are provided with targeted information and intelligent work instructions via screens.

This also means that all changes and their author can be recorded so that all details of the project progress can be tracked. Every employee is always working on the same file, lost changes or confused versions are a thing of the past.

Gigler Elektronik takes advantage of the centralized management of all projects and thus brings all parties closer together – increased work efficiency, improved agreements and easier communication facilitate the successful completion of the project. The pivotal point of the workflow is the PCB-I 365 management platform.



## Data is the new gold

Existing knowledge can ultimately optimize the company's performance through evaluation and the resulting purposefulness of the data by means of intelligent data management. Therefore, with PCB-I 365, all data is available regardless of location and time, so that nothing stands in the way of full potential exploitation of existing knowledge. This focus on data is the ultimate in today's business world, because data capital is company capital.

Consistency in the data flow via data management for data analysis is the unique selling point of Easylogix's data management platform.

Data can be used to build up a broad electronic knowledge of humans and machine interfaces

This know-how can then be applied to all production steps, control loops ultimately lead to an independently running optimization of existing processes.

This optimization, in turn, holds enormous savings potential for the entire production.

## Web-based design testing & sharing (PCB-I Online)

The possibility of web-based testing and sharing of designs can also meet the challenge of remote working and improve communication with the customer many times over.

Therefore, Gigler Elektronik uses the web-based form of the PCB-Investigator PCB-I Online software. Easylogix's web viewer technology enables direct access to the powerful CAD/CAM tool via web browser. This allows verification of designs even without the need to install the desktop version.



## Easylogix

Behind the Regensburg-based company Easylogix is a team of developers who have been successfully designing CAD systems since 1999. Since the company was founded in 2008, the team has been successively built up to nine full-time developers. The E-CAD Library uses the experience of the employees who have invested more than 50 "man-years" in the development of the basic software PCB-Investigator. However, the focus on innovation and performance is evident in all areas of application.