



The European Institute for the PCB Community

EIPC SPEeDNEWS

*The Weekly On-Line Newsletter from the European Institute of Printed Circuits.
Issue 12 - April 2021*

NEWS FROM THE EIPC

For those who missed the last **EIPC TECHNICAL WEBINAR** held in March, the review by Pete Starkey of PCB007 is as always much the same as being there. Our thanks to him and to the publishers for allowing us to share it with you.

<http://pcb.icconnect007.com/index.php/article/126939/eipc-technical-snapshot-5g-and-loss-minimisation/126942/?skin=pcb>

Kind regards

The EIPC Team.

NEW EIPC MEMBER

PRINTPROCESS AG



At the top of Lake Zug in Switzerland lies the town of Steinhausen, that borders with Zug. In this attractive town lies a company with an enviable international reputation, and EIPC is delighted to welcome Printprocess AG as a new member.

The company was founded on 1 February 1990 by Hartmut Maurer and was one of the very first PCB machinery companies to introduce high layer count registration system for multilayer technology. Today Printprocess AG is the leading company in the field of high-end registration systems. Printprocess has also an expertise of over than 20 years of exposure systems. The range of equipment's includes the EXPOMAT (mask) exposure system, the APOLLON (maskless) direct imaging unit, the TARGOMAT Post-etch drilling system, The



RIVOLINO layup system and the OPAL optical alignment system. Overall, there are many combinations of the production of multilayer boards with high-layer count and design complexity as well as exposure systems. The units are modular build so one could start with a manual system and upgrade to a fully automatic. The focus is the registration on each machine and their approach to find best fit for costumers manufacturing process.

On the right of the RIVOLINO 5 (riveting & fusion bonding system) CEO Patrick Maurer. Thomas Schmidt on the left., responsible for sales in the East and Managing Director of both Printprocess subsidiaries in Germany and China. In the middle Head of Sales West & Business Development Mr. Sven Ehrat (EIPC contact person) joined Printprocess last year. He is a graduate mechanical engineer with a Master in Business Administration. Sven has 22 years' experience in the PCB manufacturing under his belt.

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NEWS FROM THE FED

With our online seminars, you can continue your education in a targeted manner, even in times of Corona. The next dates:

- April 12-14: IPC-A-610 trainer recertification (Speaker: Thomas Lauer)
- April 15: Modern assembly production (Speaker: Stefan Burmeister)
- April 16-26: IPC-A-610 G course for trainers
- April 19-26: IPC-A-610 G course for specialists
- April 28-29: Reflow soldering: The mystery of reflow soldering profiles (Speaker: Hans Bell)
- May 3rd-5th: Electronics cooling in PCB design and production (Speaker: Dr. Johannes Adam)

Further information on the individual online training courses can be found on the website or at the bottom of the newsletter. We look forward to your participation.

16.09.-17.09.2021 - Bamberg – FED 29th FED Conference: Become an exhibitor

Present your company on two conference days at the 29th FED conference.

Interested companies can now book exhibitor space on the conference website in order to present their products to the specialist audience at the conference and to exchange ideas with visitors.

The 29th FED conference will take place from September 16 to 17 in Bamberg. The conference offers a diverse program with topics that move the electronics industry. It shows new business areas and models.

On two days of the conference, the participants have the opportunity to exchange specialist knowledge and receive targeted further training.

<https://www.fed.de/>



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NEWS FROM GERMANY

Zuken releases pre-configured solution for the management of electrical and fluid projects

The DS-E3 Starter Package for E3.series enables an easy entry into the world of design data management

With the DS-E3 Starter Package, Zuken introduces a preconfigured feature set of its DS-E3 data management software, specifically designed to manage E3.series projects. The solution has been designed to provide an easy entry into a controlled and user-friendly design data management practice with a single source of data, secure version control and defined access rights. Thanks to a direct integration into the E3.series electrical and fluid design tools, engineers can share and manage data without having to leave their familiar CAD application.



"Managing project data on a file system is often cumbersome and error-prone. This is exactly where the DS-E3 StarterPackage takes over by taking design data management to the next level", comments Tobias Martin, Operations Manager, Zuken Switzerland. (left). "Through a standardized installation procedure and a hands-on training concept, we were able to reduce the effort for the introduction to a minimum. With this combination, users can get a perfect start into data management with DS-E3."

The DS-E3 Starter Package includes functionalities for the automatic versioning and reuse of projects, thereby providing access to the complete project history. Any design revision can be used as a starting point for a new design. Pre-defined environments ensure that users always use the correct settings, project structure and database. Extended search capabilities using a variety of characteristics, such as customer or project number, help to save time on administrative work, which can then be used for product development tasks. And finally, the solution is complemented with a defined release process for active error prevention.

Thanks to its modular and flexible architecture, the DS-E3 Starter Package can be flexibly expanded and adapted as requirements increase.

More Information

- DS-E3 StarterPackage: <https://www.zuken.com/en/product/e3series/ds-e3-starter-package/>
- Blog: Get your electrical design data under control
<https://www.zuken.com/en/blog/introducing-the-ds-e3-starter-package/>

Availability

The DS-3 StarterPackage is currently available in Europe only.

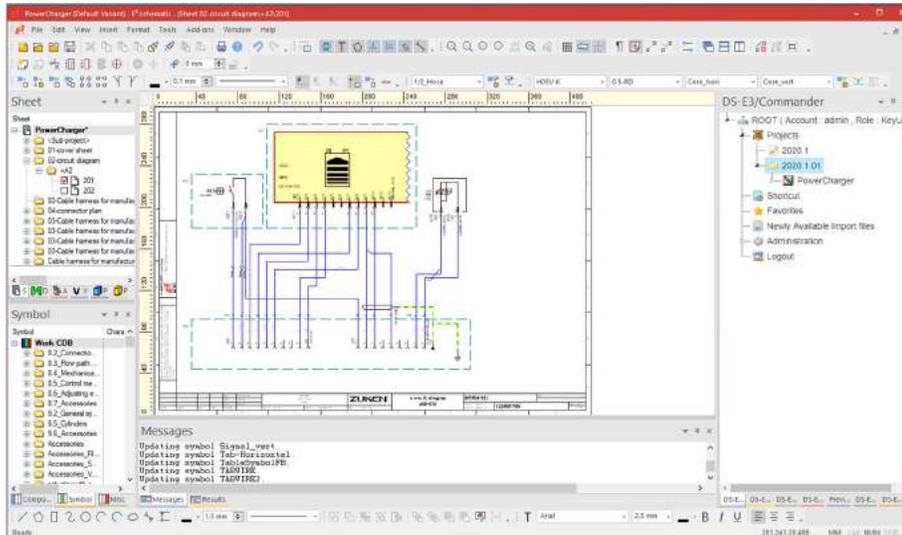


Image: DS-E3.StarterPackage.png

Caption: The DS-E3 StarterPackage includes for automatic versioning and reuse of projects , thereby providing access to the complete project history.

About Zuken

Zuken is a global provider of leading-edge software and consulting services for electrical and electronic design and manufacturing. Founded in 1976, Zuken has the longest track record of technological innovation and financial stability in the electronic design automation (EDA) software industry. The company's extensive experience, technological expertise, and agility combine to create world-class software solutions. Zuken's transparent working practices and integrity in all aspects of business produce long-lasting and successful customer partnerships that make Zuken a reliable long-term business partner. For more information about the company and its products, visit www.zuken.com, <https://www.zuken.com/en/blog/>, or www.linkedin.com/company/zuken



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NEWS FROM THE UK



Wednesday 21st and Thursday 22nd April 2021

DESIGNING THE FUTURE OF ADDITIVE MANUFACTURED ELECTRONICS

Addressing the Key Challenges of the Future Adoption of Additive Manufactured Electronics

Listen to the latest Research and Development in Additive Manufactured Electronics from Robert Kay of the University of Leeds and Naim Kapadia of The Manufacturing Technology Centre.

This Free Workshop, organised by the EPSRC Design for Additive Manufacturing Network and IMAPS-UK, aims to generate a greater understanding of the drivers and motivation that will facilitate multidisciplinary discussions, cross-fertilisation of ideas and drive future innovation in designing for the future of additive manufacturing for electronic systems.

For any other details or information please contact:

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NEWS FROM THE USA

HDP User Group

New Idea Project Call

HDP User Group is pleased to announce a new project idea call. During the *Pb-Free PWB Materials Reliability Phase 6* data gathering, several materials showed unexpected behavior of Tg by TMA.

The observed anomalies highlighted the lack of understanding or limitations for use of the existing IPC test procedure (IPC TM 2.4.24.5). This situation limits the ability to judge or measure the thermo-mechanical properties of some materials for use in modelling and performance evaluation.

This first project call will cover some of the issues involved and assess the interest of our members to move forward with a project to address this issue.

HDP members and non-members are welcome to attend this kickoff meeting. Please register for the call at <https://www.hdpusergroup.org/project/thermal-analysis-methodology-assessment/>, then download the invitation and kickoff slides.



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ELECTRONIC INDUSTRY NEWS

MacBook, iPad production delayed as supply crunch hits Apple - Nikkei

(Reuters) -Production of some of Apple Inc's MacBooks and iPads has been postponed due to a global component shortage, the Nikkei reported on Thursday.

Chip shortages have caused delays in a key step in MacBook production, the report said, adding that some iPad assembly was postponed because of a shortage of displays and display components. (s.nikkei.com/3uAZh17)

As a result of the delay, Apple has pushed back a portion of component orders for the two devices from the first half of this year to the second half, the report said, citing sources briefed on the matter.

Apple did not immediately respond to a Reuters request for comment.

According to the report, Apple's production plans for iPhones have not been affected by the supply shortage, however, the supply of some components for the devices is "quite tight".

The shortage of components remains a supply chain issue for Apple, but has not yet impacted any product availability for consumers, Nikkei added.

Apple's major supplier Foxconn has also warned of the chip shortage affecting supply chains to clients, with businesses and consumers across the globe facing the brunt of an unprecedented shortage in semiconductor microchips.

Gartner Forecasts Worldwide IT Spending to Reach \$4 Trillion in 2021

Funding for New Digital Business Initiatives to Come From Outside of IT

Worldwide IT spending is projected to total \$4.1 trillion in 2021, an increase of 8.4% from 2020, according to the latest forecast by Gartner, Inc. The source of funds for new [digital business](#) initiatives will more frequently come from business departments outside IT and charged as a cost of revenue or cost of goods sold (COGS).

"IT no longer just supports corporate operations as it traditionally has, but is fully participating in business value delivery," said [John-David Lovelock](#), distinguished research

vice president at Gartner. “Not only does this shift IT from a back-office role to the front of business, but it also changes the source of funding from an overhead expense that is maintained, monitored and sometimes cut, to the thing that drives revenue.”

All IT spending segments are forecast to have positive growth through 2022 (see Table 1). The highest growth will come from [devices](#) (14%) and enterprise software (10.8%) as organizations shift their focus to providing a more comfortable, innovative and productive environment for their workforce.

Table 1. Worldwide IT Spending Forecast (Millions of U.S. Dollars)

	2020 Spending	2020 Growth (%)	2021 Spending	2021 Growth (%)	2022 Spending	2022 Growth (%)
Data Center Systems	219,940	2.3	236,806	7.7	247,513	4.5
Enterprise Software	466,647	-2.1	516,872	10.8	571,725	10.6
Devices	663,223	-6.9	755,798	14.0	778,949	3.1
IT Services	1,021,187	-1.8	1,112,626	9.0	1,193,461	7.3
Communications Services	1,386,471	-0.7	1,450,444	4.6	1,504,743	3.7
Overall IT	3,757,468	-2.2	4,072,547	8.4	4,296,391	5.5

Source: Gartner (April 2021)

As one example, the increased focus on the employee experience and well-being are propelling technology investments forward in areas such as [social software and collaboration platforms](#) and human capital management (HCM) software.

Although optimization and cost savings efforts won’t disappear simply because there’s more economic certainty in 2021, the focus for CIOs through the remainder of the year will be completing the digital business plans that are aimed at enhancing, extending and transforming the company’s value proposition.

“Last year, IT spending took the form of a ‘knee jerk’ reaction to enable a remote workforce in a matter of weeks. As hybrid work takes hold, CIOs will focus on spending that enables innovation, not just task completion,” said Mr. Lovelock.

Return to pre-pandemic spending levels varies

Recovery across countries, vertical industries and IT segments still varies significantly, prompting a K-shape economic recovery. From an industry perspective, banking and securities and insurance spending will closely resemble pre-pandemic levels as early as 2021, while retail and transportation won’t see the same recovery until closer to 2023.

Regionally, Latin America is expected to recover in 2024, while Greater China has already surpassed 2019 IT spending levels. North America and Western Europe are both expected to recover in late 2021.

More detailed analysis on the outlook for global IT spending is available in the Gartner webinar ["IT Spending Forecast, 1Q21 Update: How the Winners are Winning."](#) Learn more

about emerging trends, expected challenges and next steps for CIOs and IT leaders in the free Gartner E-Book "[Top Priorities for IT: Leadership Vision for 2021.](#)"

Gartner's IT spending forecast methodology relies heavily on rigorous analysis of sales by thousands of vendors across the entire range of IT products and services. Gartner uses primary research techniques, complemented by secondary research sources, to build a comprehensive database of market size data on which to base its forecast.

The Gartner quarterly IT spending forecast delivers a unique perspective on IT spending across the hardware, software, IT services and telecommunications segments. These reports help Gartner clients understand market opportunities and challenges. The most recent IT spending forecast research is available to Gartner clients in "[Gartner Market Databook, 1Q21 Update.](#)" This quarterly IT spending forecast page includes links to the latest IT spending reports, webinars, blog posts and press releases.

About the Gartner Information Technology Practice

The Gartner IT practice provides CIOs and IT leaders with the insights and tools to drive the organization through digital transformation to lead business growth. Additional information is available at <https://www.gartner.com/en/information-technology>. Follow news and updates from the Gartner IT practice on [Twitter](#) and [LinkedIn](#) using #GartnerIT.



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International Diary

2021

7th EIPC Technical Snapshot Webinar

Registrations via www.eipc.org

April 14

8th EIPC Technical Snapshot Webinar

Registrations via www.eipc.org

May 19

9th EIPC Technical Snapshot Webinar

Registrations via www.eipc.org

June 16