

CASE STUDY

# DeepComputing Case Study

*A story of speed, skill, and system integration. The custom-made solution to mass production.*



DeepComputing

## Customer Industry

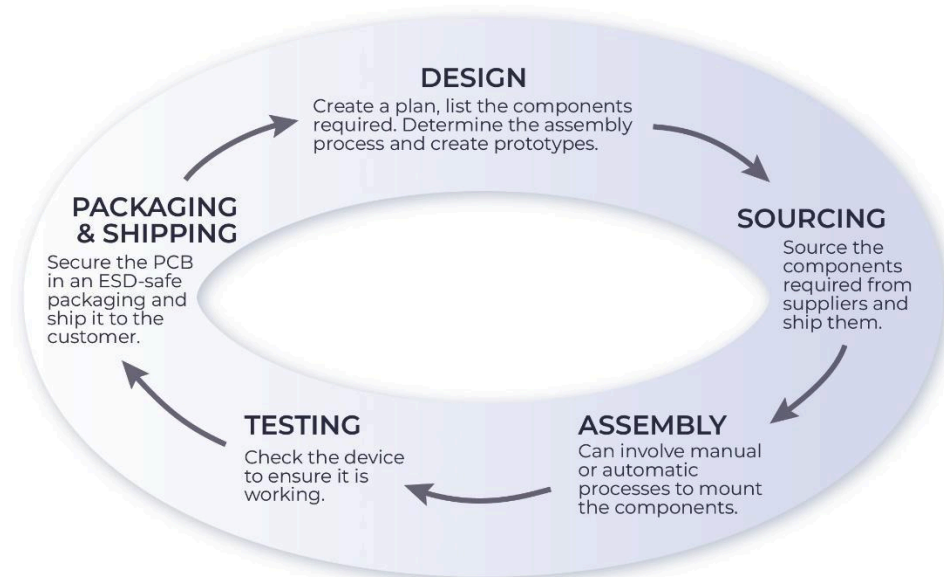
SoC Manufacturer

## Customer Needs and Challenges

Operating in the RISC-V chip design industry, this customer urgently required a laptop product integrated with their own RISC-V chip to verify its capabilities. With no experience in the mass-production of laptop solutions from RISC-V mainboard design through to system integration, they faced huge challenges proving their SoC product capabilities to the market.

## DeepComputing Mass-Produced Laptop Solution Services

With our extensive experience, especially involving the most complex RISC-V architecture products, we could instantly offer this customer a seamless end-to-end solution. We devised a mass-production quality control plan according to the following rigorous electronics manufacturing processes:



Our mass-production solution service guarantees customers can prove their SoC product capabilities for any laptop-like product in the shortest time, with the best possible quality and the least investment in time and money. In this case, the customer was producing thousands of pieces within 12 weeks.

Our customer technical training also gave our client theoretical mass-production knowledge and practical experience in SoC design as well as system integration knowledge in everything from driver porting to various kinds of OS support. As a result, the customer gained the necessary experience to advance their subsequent product development and drive their future SoC product competitiveness.

## The Customer Value

As pioneers, our services are innovative and leading-edge. Our knowledge of the mass production of RISC-V architecture products gives our customers the advanced technical solutions and competitive edge they are seeking.

Not only do we meet customer needs, we instill a sense of confidence as we demonstrate the value of our technical expertise, our professionalism and our service quality. That's the kind of solution that helps any customer achieve their product development and business goals.

## About DeepComputing

Formed in 2022 by a group of dedicated RISC-V enthusiasts, DeepComputing is a pioneer in RISC-V innovation, leading the way in connecting developer communities, suppliers, tools, and systems with the world of RISC-V. We are committed to advancing the adoption and implementation of RISC-V beyond existing ISA chipsets. Together with a diverse and dedicated array of partners, we are focused on driving development of the RISC-V ecosystem through our DeepComputing laptops, pads, workstations, AI speakers, and routers, as well as our BravoMonster autonomous remote-control toys and real-world vehicles.

# Welcome to the Open Era of Computing!

Join us and see how open technical collaboration along with the support of many RISC-V programs can accelerate your business.

[riscv.org/membership/](https://riscv.org/membership/) | [info@riscv.org](mailto:info@riscv.org)