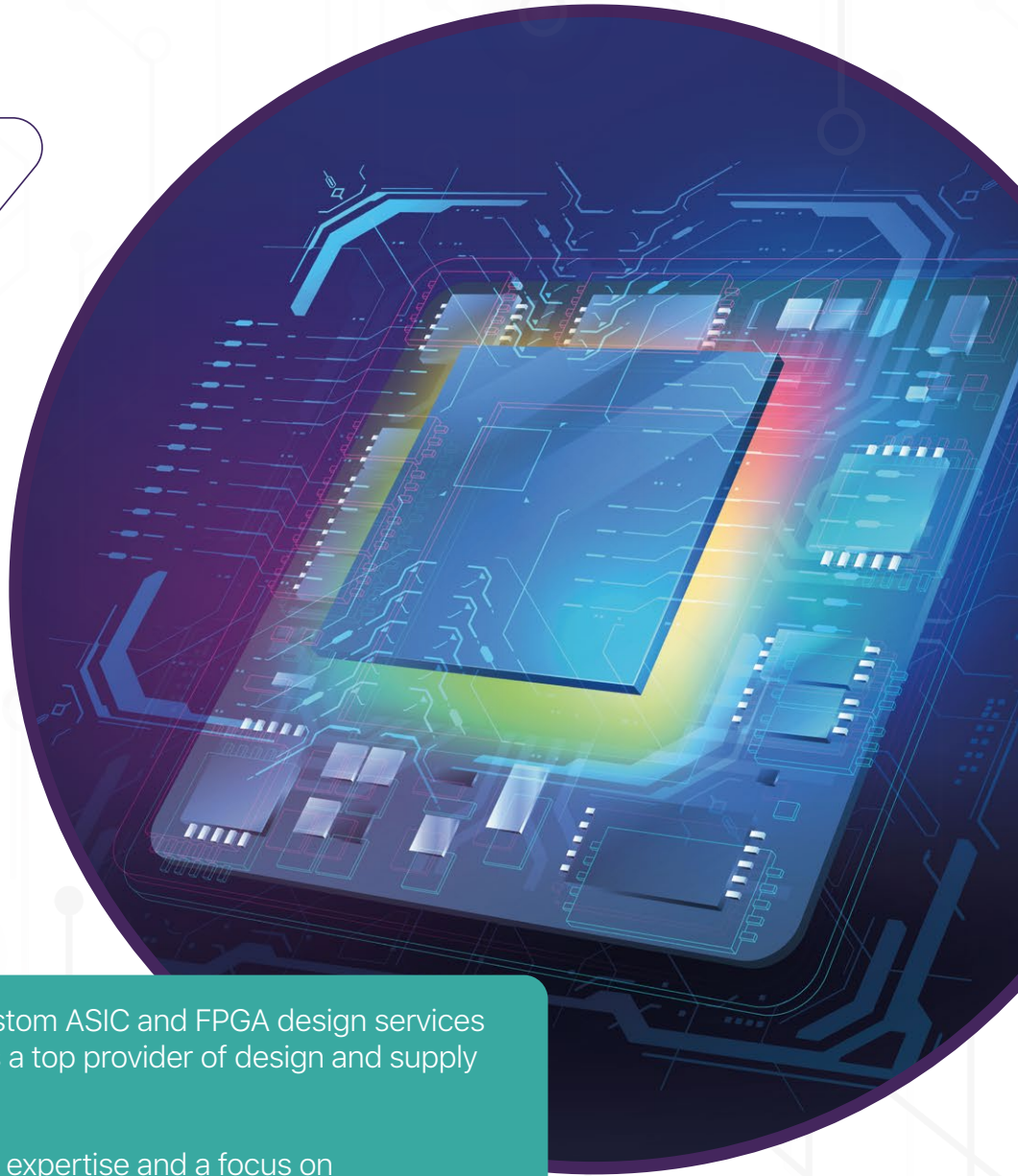


FPGA design services



founded 1991



easics has been offering custom ASIC and FPGA design services for over 30 years, making us a top provider of design and supply services.

with advanced FPGA design expertise and a focus on high-speed interfacing, DSP & image processing, SoC and SoM boards we enable faster time-to-market for innovative products.

our extensive experience in both ASIC and FPGA design allows us to deliver high-quality designs tailored to our clients' specific needs.

easics is an ISO 9001:2015 certified company.

the benefits of a comprehensive design company

▶ opting for a FPGA design company that additionally specializes in ASIC design provides several benefits over selecting a company that exclusively focuses on FPGA design:



expertise

our experience in ASIC design helps to improve the FPGA designs, which leads to better designs that are optimized for performance, cost, and reliability.



seamless integration

expertise in both ASIC and FPGA technologies enables seamless collaboration between them, reducing development time and cost, which is crucial as many applications require their integration.



improved design quality

our skills enhance the designs by identifying potential issues early on, leading to better overall design quality, reliability, and performance.



risk reduction

our deep understanding in designing complex systems enable early issue identification, reducing the risk of costly errors later in the development process.



cost savings

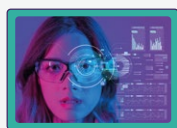
leveraging our design expertise enables more cost-effective solutions and reduces development time and costs through easier integration.



flexible

customizable solutions to meet the unique needs and requirements of each specific project, including RISC-V, microblaze and NIOS processors.

solutions for highly demanding markets



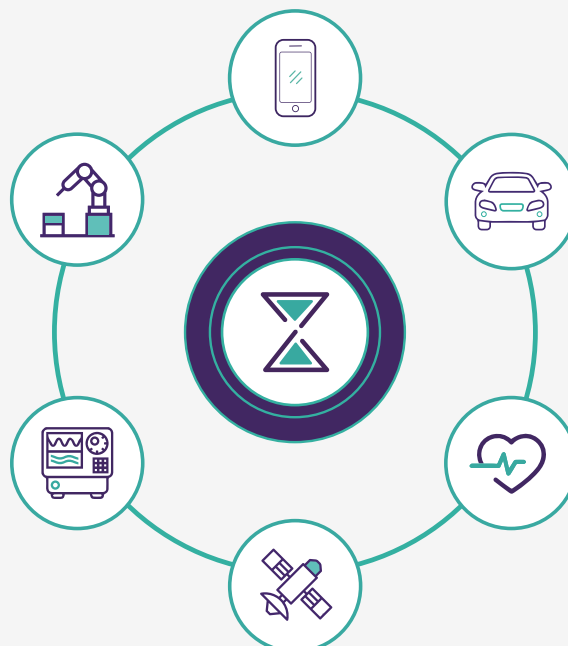
IoT / consumer



industrial



measurement
equipment



automotive



healthcare



other
markets

advanced FPGA design services

▶ we specialize in advanced FPGA design services, with a particular focus on delivering:

high-speed interfacing



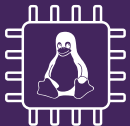
- extensive experience for a wide range of high-speed interfaces, including PCIe, Ethernet, USB, HDMI, DisplayPort, and DDR4/5
- deep knowledge of the latest high-speed signaling standards and techniques
- solutions for a complex multi-board system or a simple one-board design
- offer TCP/IP hardware acceleration to offload the application CPU, freeing up valuable resources and improving overall system performance

- implement high-performance designs that enable real-time processing of complex data streams
- experience in a wide range of DSP and image processing applications, including digital filtering, Fourier transforms, convolutional neural networks (CNNs), and more
- designs can be optimized to meet the specific performance and power requirements

DSP & image processing



SoC running Linux on embedded ARM



- expertise in ARM-based architectures and processors for optimized SoC design
- competence with embedded Linux, incl. kernel configuration and bootloaders
- experience in developing Linux device drivers with best practices for reliability & efficiency
- knowledge of the wider Linux ecosystem, incl. development tools, libraries & frameworks
- embedded software design services for efficient integration of hardware and software components

- vast experience in reliable SoM design
- expertise in designing custom baseboards that integrate seamlessly with SoM modules
- rigorous in-house testing for quality and reliability
- strong partnerships with leading SoM vendors providing access to the latest technology and features
- complete design services including hardware, software, system integration, and testing, for faster time-to-market

System-on-Module (SoM) boards

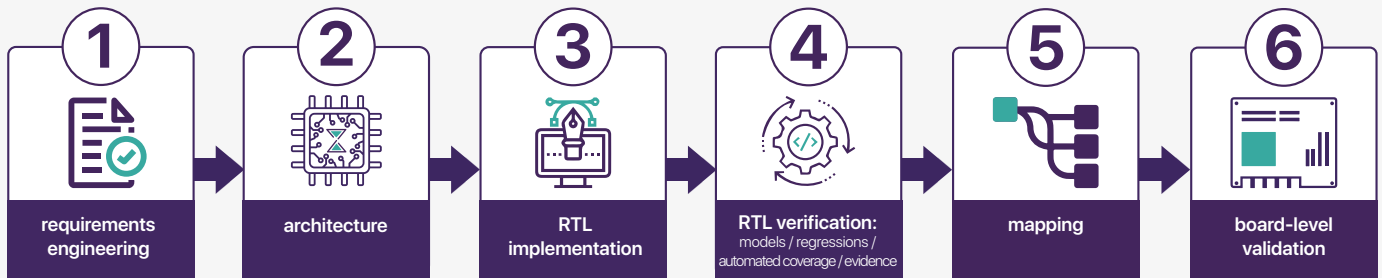


we also offer FPGA development for ASIC prototyping, validation & demo

reducing development time and cost while ensuring high-quality validation before ASIC volume production. our ASIC design expertise combined with FPGA prototyping allows us to provide comprehensive solutions for your design needs.

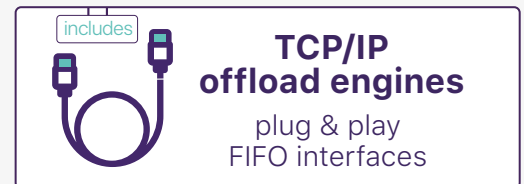
FPGA design services

development process



robust methodology

- design and modeling: VHDL, (System) Verilog, SystemC, C++, C, Python, Matlab / Simulink
- automated build flow
- revision control
- issue tracking
- release management



our FPGA design services
support all major FPGA vendors

official partners



From the moment we met easics, it was evident that they stood out for their solid and competitive offer. During our initial visit, it was clear that this company effectively assists in creating a customized technical solution to meet our specific needs. As a result, our collaboration with easics was smooth. The process of creating specifications, conducting technical reviews, and receiving post-project support was carried out in a positive atmosphere and with a great deal of expertise.

Jean-Marc Wislez
Flight Systems Division Manager
Space Applications Services

we also offer:

ASIC / SoC
design & supply
services

nearbAI™
customizable & scalable
neural processing units (NPU's)

easics is market leader in ASIC / SoC design and supply services. easics licenses nearbAI™, its semiconductor intellectual property (IP) products for implementing artificial intelligence (AI) at the extreme edge, close to the image sensors. end-markets include mobile, consumer, Internet-of-Things (IoT), healthcare, automotive, industrial and measurement equipment. easics is a rock-solid company, in business for over 30 years and was founded in 1991. easics is an independent company, headquartered in leuven, with an office in silicon valley (california). easics is an ISO 9001:2015 certified company.



founded 1991



easics us

Silicon Valley

easics nv (hq)

diestsevest 32 box 2B
3000 leuven, belgium

tel: +32 16 395 611

e-mail: contact@easics.com

 **easics**
get our logic in your system
www.easics.com

e-mail: contact-us@easics.com