



# ARM DESIGNSTART

## Kick-off Your Design Instantly

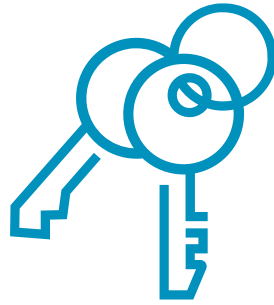
Differentiate your product, reduce costs, shorten development time and conduct research, all with industry-leading Arm IP and the world's #1 technology ecosystem. Arm DesignStart helps companies to design innovative custom chips or FPGA designs, with the lowest risk possible through fast access to a select mix of proven Arm IP, resources, support, and tools from our ecosystem.

The rise of connected and IoT products for diverse markets means that OEMs and silicon vendors need to innovate quickly, affordably, and satisfy application-optimized requirements. DesignStart makes this possible: no matter a company's budget or design expertise, high quality custom designs are achievable and accessible.

SoC Prototyping: Getting Started

## Why DesignStart

Arm DesignStart helps companies to design innovative custom chips or FPGA designs, without compromising on time-to-market



Get fast, low-cost access to a select mix of industry-leading Arm IP, proven in billions of devices today.



Benefit from Arm’s robust ecosystem of tools, support, and software.



Access technical expertise from Arm engineers and design support from Arm Approved design partners.



# Explore the Options Available for Designing Custom SoCs or FPGAs

## Custom SoC

Custom SoCs, or ASICs, offer flexibility to build your silicon fine-tuned to the application requirements. Arm DesignStart offers four routes for accessing Arm IP for custom silicon, based on your requirements:

- DesignStart Eval, for simulation and prototype
- DesignStart Pro, to produce a commercial chip
- DesignStart Physical IP for custom SoC implementation
- DesignStart University for SoC design for teaching and research

## FPGA

FPGAs are generic hardware platforms that can be reconfigured based on application requirements, helping future-proof designs against evolving standards and new requirements.

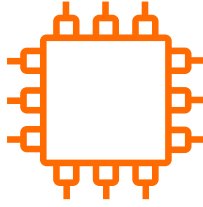
Arm offers soft CPU IP free-of-cost (no license and no royalty) that can be easily integrated with tool flow of our select FPGA partners.

DesignStart Eval

DesignStart Pro



Evaluation and prototyping

[Learn More >](#)

Commercial production

[Learn More >](#)

SoC implementation

[Learn More >](#)**Available to**

All

Registered companies

Registered companies or  
approved universities**Upfront Cost**

\$0

\$0 for Cortex-M0 and  
Cortex-M3  
\$75K access fee for Cortex-  
A5

\$0

**Licensing**Click-through end user  
license agreementSimple agreement for  
single-use commercial  
productionSimple agreement for  
single-use commercial  
production**Royalties**

No

Yes

Yes

**Includes**

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"><li>• Arm Cortex-M0 and Cortex-M3 CPUs</li><li>• Corstone foundation IP</li><li>• Supporting system IP</li><li>• Supporting software, tools and models</li></ul> | <ul style="list-style-type: none"><li>• Arm Cortex-A5, Cortex-M3 and Cortex-M0 CPUs</li><li>• Corstone foundation IP</li><li>• Supporting system IP</li><li>• Supporting software, tools and models</li></ul> | <ul style="list-style-type: none"><li>• Artisan Physical IP library</li></ul> |
|--|---|---|

## Reference Guide by Arm Engineer Joseph Yiu: System-on-Chip Design with Arm Cortex-M Processors

A free PDF download for a limited period of time!

[Read Now](#)

## Arm-Based Custom SoC Design for IoT Using the Cadence Cloud

Join Arm and Cadence for a step-by-step demonstration of how to quickly and easily download Arm Cortex-M IP for no upfront fee and start designing an Arm-based IoT SoC on the Cadence cloud.

Watch Webinar



## Products

IoT Solutions

Processors

AI Platform

Graphics and Multimedia

Development Tools

Custom SoCs

## Get Access to a Broader Range of Arm IP

If you would like to evaluate and design solutions with a broader range of Arm IP, Arm Flexible Access lets you explore and design with a wide-ranging package of Arm IP, tools, and services, with licensing due only when your SoC design is ready and committed for high-volume manufacture.

Arm NN

CMSIS

Neon

TrustZone

[Learn More](#)

## Partner Ecosystem

Arm Approved Program

Artificial Intelligence

Automotive

HPC

Infrastructure



Mbed Partners

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## From Concept to Tape-out in Six Months using DesignStart

Find out how EigenCOMM developed a low-power, high-performance solution and boosted time-to-market for IoT innovation.

[Learn More](#)

## Evolving Intelligent Devices for Immersive Experiences

Discover how Inuitive developed a computer vision processor with the smallest possible footprint for use in AR, VR, and drones with the Arm Cortex-A5 processor.

[Learn More](#)

