



# ARM's Solution Center for Android








- Silicon
- Application Software
- Operating Environments and Low-Level SW
- Middleware
- Development Tool - Hardware
- Development Tool - Software
- Services (Soc and SW Design)
- Training
- EDA- Design Tools
- Consortia




# Android on ARM®: It's the all about the Ecosystem

## Make the most of your connections with the ARM Connected Community

### Largest Industry Ecosystem with 850+ Partners

- Network with ARM-based Semiconductor, OEM, Software Developers, etc
- Exclusive chance to present and exhibit at ARM Technology Conference and CC Technical Symposiums
- Technical support through ARM Discussion Forums – <http://forums.arm.com>

### FREE ARM Channels For Partner Promotion

- Excellent Exposure With ARM Social Media channels
- ARM promotion of Partner news, whitepapers, exhibition & demos at events through blogs, tweets, flyers & media alerts
- Partner use of ARM Connected Community (CC) logos
- Partner PR to announce CC membership and new products with ARM quote
- Partners featured in ARM Powered® Products on ARM web, posters and presentations at events and IQ ads
- ARM quarterly newsletter with co-marketing programs

### Efficient Business Generation Tools

- Online sales generation tool
- Company and product listings on ARM website
- Opportunity to participate in joint webinars
- Chances to pitch articles and advertise in IQ and IQonline

[www.arm.com/community](http://www.arm.com/community)

## The ARM Advantage

Since the first ARM-based Android device demoed in February 2008, the uptake of Android™ in the mobile world has been phenomenal.

- Over 100 million ARM powered Android devices shipped
- Over 300 ARM powered certified Android devices available
- Over 400,000 ARM powered Android devices being activated daily

If you are looking to develop Android products, using the ARM architecture brings you the ultimate time to market advantage.

- Widest range of production certified SoC solutions
- Android is optimized out of the box for ARM
- ARM optimized Native Applications

The ARM architecture serves at the standard development, test and deployment architecture for the Android platform. With a wide array of processor options, ARM enables Android devices to meet a spectrum of performance, power and functional requirements while retaining the platform and application compatibility that makes Android such a powerful force in computing.

Android on ARM will ensure your device will deliver the maximum performance, efficiency, and user experience.

### Platform Advantage

The Android platform makes extensive use of the ARM instruction set and many of the architecture's unique features to deliver maximum performance, power efficiency and user experience. Android optimizations for ARM include:

- Many of Android's 6,300 C & 4,900 C++ files include ARM optimizations
- 20,000 lines, about 28% of the Bionic libraries are ARM assembler
- WebM includes 10,000 lines of ARM NEON assembler
- The Dalvik application framework and V8 Javascript engine both include native ARM Just-In-Time (JIT) compilers
- ARM NEON™ optimizations are used throughout Android packages, including Skia, Chrome, Surfaceflinger and many others

### Application Advantage

The ARM architecture and the open nature of the Android platform have given rise to a diverse ecosystem of developer materials, tools and application middleware.

Android application developers today employ a range of technologies that extensively target the ARM architecture, including:

- Flexible language and tool support
    - C/C++, Java, HTML5
  - Extensive reusable existing code and IP
  - A broad range of 3rd party application middleware
- Many of the top applications in today's marketplace directly or indirectly employ native ARM code. These applications exclusively target ARM and include:
- 3D graphics applications using OpenGL ES 2.0
  - Media players
  - Browsers
  - Games
  - VoIP clients

### Android Native Developer Kit (NDK)

The NDK enables developers wishing to use C, C++ or ARM assembly code in their applications. The NDK is invaluable for delivering OpenGL ES 2.0 3D content, optimal performance sensitive code, third party libraries and reusable software IP cross-platform.

### Partner Advantage

The ARM Solution Center for Android (SCA) is a centralized resource for the wide range of companies and individuals innovating with the Android on the ARM architecture. Connected Community members come together to share their Android expertise, solutions and services, including:

- Development Tools
- Application Development
- Turn Key Solutions
- Middleware
- Services
- Training

Visit the SCA to find the latest Android solutions offered by ARM Partners.



## Press Contacts

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## ARM Social Media & Online Resources

- Website: [arm.com](http://arm.com)
- Newsroom: [arm.com/news](http://arm.com/news)
- ARM Connected Community: [arm.com/community](http://arm.com/community)
- Blogs: [blogs.arm.com](http://blogs.arm.com)
- ARMflix on YouTube: [youtube.com/ARMflix](http://youtube.com/ARMflix)
- Twitter:
  - @ARMCommunity @ARMMobile
  - @ARMEEmbedded @SoftwareOnARM
  - @KeilTools @ARMMultimedia

## Connected Community Contact

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# 850+ ARM Connected Community® Partners

The image displays a comprehensive list of 850+ ARM Connected Community partners, organized into three main categories:

- Silicon Partners:** Includes major semiconductor manufacturers such as Intel, AMD, ARM, TI, Renesas, and various SoC designers like MTK, Mediatek, and others.
- Design Support Partners:** Features a wide array of design services, EDA tools, and IP providers, including Synopsys, Cadence, and various specialized design houses.
- Software, Training and Consortia Partners:** Lists numerous software vendors, training providers, and industry consortia, such as Microsoft, VMware, and various regional industry groups.