

ARM Cortex Processors

The World's Most Power Efficient Processors
Performance and Scalability for Enterprise, Mobile and
Embedded Solutions

2H 2014

Expiration Q1 2015

ARM® Cortex®-A Current Portfolio

2H 2014, Expiration Q1 2015



ARMv7-A
High performance
32-bit CPU with
enterprise class
feature set



ARMv7-A
High performance
32-bit CPU with
lower power and
smaller area



ARMv8-A
Highest performance
64/32-bit CPU

High
Performance



ARMv7-A
Smallest and
lowest power CPU



ARMv7-A
High efficiency
32-bit CPU
big.LITTLE™ compatible



ARMv8-A
High efficiency
64/32-bit CPU
big.LITTLE compatible

High
Efficiency

A

ARM® Cortex®-R and Cortex-M Processor Portfolio

2H 2014, Expiration Q1 2015

R



Real-time standard



Enhanced system integration features
Functional safety



High performance
4G modem and storage

M



Lowest cost
Low power



Highest energy
efficiency



Performance
efficiency



Mainstream
Control & DSP



Maximum Performance
Control & DSP

Legal notices and disclaimers

- Copyright © 2014 ARM Limited. All rights reserved. Neither the whole nor any part of the information contained in, or the products described in, this document may be adapted or reproduced in any material form except with the prior written permission of ARM. Visit [here](#) to request permission to use the whole or any part of the information in this document.
- The products described in this document are subject to continuous developments and improvements. All particulars of the products and their use contained in this document are given by ARM in good faith. However, all warranties implied or expressed, including but not limited to implied warranties of merchantability, or fitness for purpose, are excluded. This document is intended only to educate the reader about the range of the products. ARM shall not be liable for any loss or damage arising from the use of any information in this document, or any error or omission in such information, or any incorrect use of the products. ARM reserves the right in its sole discretion to amend this document at any time, including the removal, addition or amendment of any product.
- ARM and Cortex are registered trademarks of ARM Limited (or its subsidiaries) in the EU and/or elsewhere. big.LITTLE is a trademark of ARM Limited (or its subsidiaries) in the EU and/or elsewhere. All rights reserved.
- Visit [here](#) for more information about ARM's trademarks.
- ARM refers to its products and services that are under development using project names (otherwise known as code names). Any disclosure by ARM of its project names to any third party will be under strict terms of confidentiality. Third parties should not use any ARM project name in the marketing of the relevant ARM product or service. Third parties should use the correct commercial name given to any newly released ARM product or service, which may or may not include one or more ARM trademarks. For example, ARM's Atlas processor project was launched commercially in 2012 as the ARM® Cortex®-A57 processor.
- Where the term ARM is used as a company or trade name, it means "ARM or any of its subsidiaries as appropriate".
- This document is non-confidential.