ARM Cortex processors

The world’s most power efficient processors

Performance and scalability for enterprise, mobile and embedded solutions

Q4 2016
ARM® Cortex®-A portfolio

Q4 2016

Cortex-A15
High-performance with infrastructure feature set

Cortex-A17
High-performance with lower power and smaller area relative to Cortex-A15

Cortex-A57
Proven high-performance
64/32-bit

Cortex-A72
2016 Premium Mobile, Infrastructure & Auto
64/32-bit

Cortex-A73
2017 Premium Mobile, Consumer
64/32-bit

Cortex-A8
First ARMv7-A processor

Cortex-A9
Well-established, mid-range processor used in many markets

Cortex-A5
Smallest and lowest power ARMv7-A CPU, optimized for single-core

Cortex-A7
Most efficient ARMv7-A CPU, higher performance than Cortex-A5

Cortex-A53
Balanced performance and efficiency
64/32-bit

Cortex-A32
Smallest and lowest power ARMv8-A
32-bit

Cortex-A35
Highest efficiency
64/32-bit

Key:
big.LITTLE compatible

High performance
High efficiency
Ultra high efficiency
ARM® Cortex®-R portfolio
Q4 2016

Cortex-R7
High performance
4G modem and storage

Cortex-R8
Highest performance
5G modem and storage

Cortex-R7-R
ARMv7-R

Cortex-R4
Real-time performance

Cortex-R5
Real-time performance
with functional safety

Cortex-R52
Most advanced processor for
functional safety

ARMv8-R

Storage & modem

Functional safety
ARM® Cortex®-M and SecurCore® portfolio

Q4 2016

Cortex-M3
Performance efficiency

Cortex-M4
Mainstream control and DSP

Cortex-M7
Maximum performance, control and DSP

Cortex-M33
Flexibility, control and DSP with TrustZone

Cortex-M0
Lowest cost, low power
Available via DesignStart

Cortex-M0+
Highest energy efficiency

Cortex-M23
TrustZone in smallest area, lowest power

SC000
Optimized area, anti-tampering

SC300
Performance, anti-tampering

Performance efficiency
Lowest power & area
SecurCore
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