



Three Biggest Hurdles with Custom Silicon Designs

Time to market



Return on investment



Development risk





Three Biggest Hurdles with Custom Silicon Designs

Time to market



Simple licensing Start immediately

Return on investment



Pick the optimal IP when you need it

Development risk



Explore Agile development



Arm Flexible Access – a New Licensing Model

Standard Arm licensing



Arm Flexible Access
New!

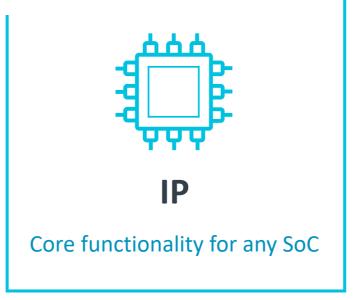


Freedom to design and innovate Lower barrier to entry



Everything you Need for an SoC









What is Included?



Mainstream package

Processors

- Cortex-A53
- Cortex-A35
- Cortex-A34
- Cortex-A32
- Cortex-A7
- Cortex-A5 (UP and MP)
- Cortex-R52
- Cortex-R8
- Cortex-R5
- Cortex-M33
- Cortex-M23
- Cortex-M7
- Cortex-M4
- Cortex-M3
- Cortex-M0+
- Cortex-M0

Graphics Processors

- Mali-G52
- Mali-G31

Also includes Mali DDKs

CoreLink Interconnect

- CoreLink NIC-450
- CoreLink NIC-400
- CoreLink CCI-400
- CoreLink CCI-500
- CoreLink CCI-550
- ADB-400 AMBA domain bridge
- XHB-400 AXI-AHB bridge

System Controllers

- CoreLink GIC-500
- CoreLink GIC-400
- PL192 VIC
- CoreLink TZC-400
- CoreLink L2C-310
- CoreLink MMU-500
- BP140 Mem. Intf
- **BP141 TrustZone** Mem. Wrapper

Security IP

- CryptoCell-312
- CryptoCell-712
- True Random Number Generator

Peripheral Controllers

- PL011 UART
- PL022 SPI
- PL031 RTC
- CoreLink DMA-230
- CoreLink DMA-330

CoreSight **Debug & Trace**

- CoreSight SoC-400
- CoreSight SDC-600
- CoreSight STM-500
- CoreSight System Trace Macrocell
- **CoreSight Trace Memory Controller**

Physical IP*

- Artisan physical IP platform, TSMC
- Artisan PIK for Cortex-M33, TSMC **22ULL**

Corstone **Foundation IP**

- Corstone-101
- Corstone-201

Tools & Models

- **Socrates IP Tooling**
- Arm DS-Gold
- Virtual system models (fast & cycle accurate)

75%

of Arm Cortex licenses over past 2 years

Legend:

IP Products

Tools & Models

Transparent and Predictable Pricing

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Annual access fee

Includes

- Access to IP, tools & models
- Design and dev rights (including FPGA proto)
- Support and maintenance for registered projects

Product licence fees

- Per-product manufacture licence fee at tape-out
- Transparent pricing
 - Simple
 - Full price list upfront
- Discount for multiple Arm IP
- Only pay for what you need

Royalties

- Per-product royalty rate
- Known upfront
- Rate applies perpetually for product configuration
- Simple flat %ASP rate
- Discount for multiple Arm IP
- Royalty calculator available



Annual Access Fee - Mainstream Package Tiers

	Academia / Research ¹	Entry ²	Standard ²
Access to IP	✓ (Except Crypto)	✓	✓
Technical support	Community based	✓	✓
Onboarding session	✓	✓	✓
Evaluation, exploration and design	✓	✓	✓
Number of tape-outs per year	Unlimited	1	Unlimited
Online training seats	5	5	25
Arm Development Studio (Arm DS Gold)	1 seat	1 seat	3 seats
Arm configuration tool - Socrates	1 seat	1 seat	1 seat
Arm virtual system models	1 seat	1 seat	2 seats
Arm Service Tokens (training/support/)	No	Purchased separately	15 Service Tokens
	\$0k per annum	\$75k per annum	\$200k per annum

¹ Available early 2020



² Available now – See full details on Arm Web site

Three Ways to Access Arm Technology

Arm DesignStart



Fast, lowest-cost access to a select mix of IP

Arm Flexible Access



New!

Explore a wide range of IP before licensing

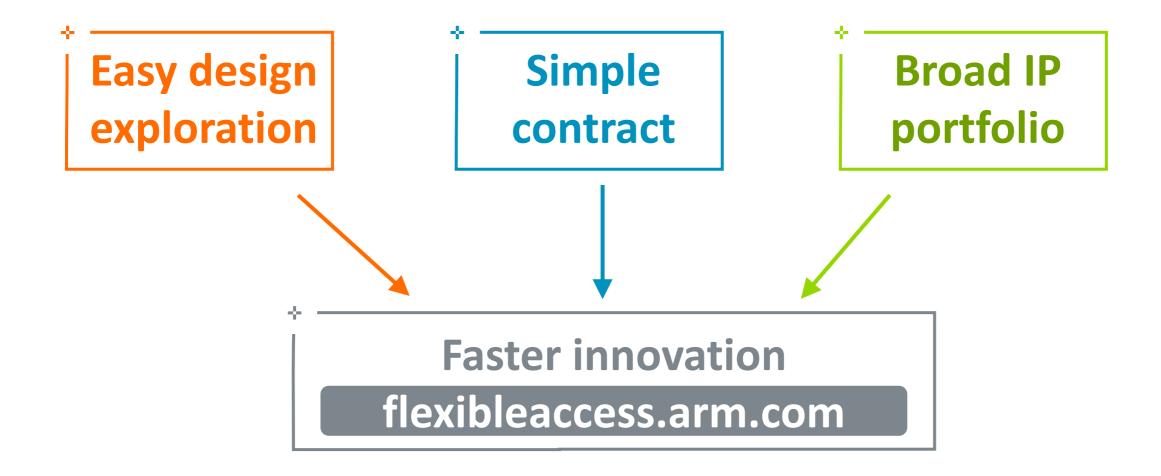
Standard Licensing



Range of licensing terms across the full Arm portfolio



Unleashing Innovation





arm

Thank You Danke Merci 谢谢 ありがとう Gracias Kiitos 감사합니다 धन्यवाद شکرًا תודה



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