

Arm IoT Reference Design Platforms combine the latest specialized processing capabilities with advanced software, tooling, and prototyping platforms. They are ready to implement or build upon, simplifying your design process and streamlining product development.

	Corstone-300	Corstone-310	Corstone-315	Corstone-320	Corstone-1000	
IP	SSE-300 subsystem based on: Cortex-M55 Ethos-U55	SSE-310 subsystem based on: Cortex-M85 Ethos-U55	SSE-315 subsystem based on: Cortex-M85 Ethos-U65 Mali-C55	SSE-320 subsystem based on: Cortex-M85 Ethos-U85 Mali-C55	SSE-710 subsystem based on: Cortex-A32 / Cortex-A35 / Cortex-A53 Cortex-M	
Prototyping platforms	Arm Virtual Hardware (AVH) Ecosystem FVP MPS3 FPGA		Arm Virtual Hardware (AVH) Ecosystem FVP MPS4 FPGA		Arm Virtual Hardware (AVH) Ecosystem FVP MPS3 FPGA	
Reference applications for example use cases	Keyword spotting Speech recognition	Keyword spotting Speech recognition	Keyword spotting Speech recognition Object detection	Keyword spotting Speech recognition Object detection	Linux-based IoT platform	
Tools	Cloud Services: AWS IoT Core AWS IoT Core Device Advisor AWS IoT Device SDK CI/CD: GitLab CI	Machine Learning: TensorFlow Lite for Microcontrollers Arm ML Inference Advisor (MLIA) Arm ML Evaluation Kit (MLEK) Arm Model Zoo	Development environment: Arm Development Studio Keil Studio VS Code Compilers: Arm Compiler 6 GCC LLVM	Standards: SystemReady IR PSA Certified Level 2 Ready Build tool: Bitbake	Development environment: Arm Development Studio Compiler: GCC	
Middleware and platform software	Kernels: RTX FreeRTOS Zephyr	Secure platform software: Trusted Firmware-M (TF-M) Mbed TLS MCUboot	Arm middleware: IoT Sockets VSocket CMSIS-Driver CMSIS-RTOS2	Third party middleware: FreeRTOS TCP/IP FreeRTOS Socket	Kernels: Linux OS: Debian OpenSUSE	Secure platform software: Trusted Firmware-A (TF-A) Trusted Firmware-M (TF-M) Mbed TLS OP-TEE U-Boot