

Embedded Software Handout1  
HL

Table 1. Comparison and Selection of Target Platform

Serial No.	1	2	3	4	5	6	
CPU/Board	LPC17xx	S3C6410	NANO	Tx2	BCM2835/ 2837	RISC-V	
Company	NXP	Samsung	Nvidia	Nvidia	Broadcom	Future Electronics /Microsemi	
CPU Core	ARM	ARM11	ARM CPU/GPU	ARM CPU/GPU	ARM		
Kit	OM13085 LPCXpresso	Samsung ARM11 Dev Kit	Jetson NANO	Jetson Tx2 Dev Kit	Pie3B+/4	IGLOO2 or SmartFusion2 FPGA	
Data sheet	Yes	Yes	Partial	Yes	Yes	--	
CPU Architecture Block Diagram							
Memory Map							
Special Purpose Registers							
Firmware Tool							
IDE							
Cross Compiler Tool Chain							
OS Source Distribution							

Note:

1. You can download a functional toolchain from [developer.arm.com](https://developer.arm.com) (ref: <https://unix.stackexchange.com/questions/453032/how-to-install-a-functional-arm-cross-gcc-toolchain-on-ubuntu-18-04-bionic-beav>)
2. Installation guide: <https://unix.stackexchange.com/questions/453032/how-to-install-a-functional-arm-cross-gcc-toolchain-on-ubuntu-18-04-bionic-beav>