BSEC Binary Size Information

1. Platform Supported Currently

Platform	Compiler	TYPE
Cortex-ARM	ARMCC	Cortex-M0, M0+, M3, M4, M4_FPU, M7
Cortex-ARM	GCC	Cortex-M0, M0+, M3, M4, M4_FPU, M7
Cortex-A*	GCC	Cortex-A7
AVR_8bit	AVR-GCC	MegaAVR, XMEGA
AVR_32bit	AVR-GCC	32-bit AVR UC3
ESP	xtensa-lx106-elf-gcc	ESP
MSP430	msp430-elf-gcc	MSP430
IAR	IAR compiler	Cortex-M0, M0+, M3, M4, M4_FPU, M7
Raspberry pi	Arm-linux-gnueabihf-gcc	Pi0-armv6 32bits, pi3-armv8-a 64bits

2. Binary Size on different platform

Platform Type	Compiler	ROM size of API in bytes	ROM(.text+.data) in bytes Normal/lite	RAM(.data+.bss) in bytes Normal/lite	File Size* In bytes Normal/lite
Cortex-M0	ARMCC	3340	18909 / 11607	1120 / 1088	227k / 143k
Cortex-M0+		3340	18909 / 11607	1120 / 1088	227k / 143k
Cortex-M3		3166	18129 / 11119	1120 / 1088	223k / 142k
Cortex-M4		3166	18129 / 11119	1120 / 1088	224k / 142k
Cortex-M4_FPU		3166	19091 / 11979	1120 / 1088	231k / 144k
Cortex-M7		3170	18145 / 11135	1120 / 1088	224k / 142k
Cortex-M0	GCC	3664	22444 / 13240	1120 / 1088	90k / 58k
Cortex-M0+		3664	22444 / 13240	1120 / 1088	91k / 58k
Cortex-M3		3776	20608 / 11972	1120 / 1088	87k / 56k
Cortex-M4		3724	20620 / 12020	1120 / 1088	87k / 56k
Cortex-M4_FPU		3724	20788 / 12112	1120 / 1088	82k / 52k
Cortex-M7		3812	21172 / 12268	1120 / 1088	82k / 52k
ARMv8		3532	22524 / 13412	1120 / 1088	89k / 57k
Cortex-A7		3884	21428 / 12652	1120 / 1088	86k / 56k
AVR8bit-MegaAVR	AVR-GCC	7814	43291 / 26085	1064 / 1048	141k / 85k
AVR8bit-XMEGA		7742	42505 / 25883	1064 / 1048	141k / 86k
AVR 32bit		4484	23760 / 13130	1460 / 1428	138k / 78k
ESP32	Elf-gcc	4127	23809 / 14046	1120 / 1088	185k / 101k
ESP8266		4749	28581 / 17111	1120 / 1088	198k / 113k
Msp430		5530	34180 / 20802	1070 / 1054	124k / 78k

Cortex-M0	IAR	3596	24628 / 15814	1120 / 1120	194k / 141k
Cortex-M0+		3596	24628 / 15814	1120 / 1120	194k / 141k
Cortex-M3		3516	23436 / 14600	1120 / 1120	187k / 134k
Cortex-M4		3520	23440 / 14604	1120 / 1120	187k / 134k
Cortex-M4_FPU		3520	24036 / 15168	1120 / 1120	191k / 134k
Cortex-M7		3520	23440 / 14604	1120 / 1120	187k / 134k
Raspberry-pi0	Arm-linux-gnueabihf-gcc	10224	56180 / 34096	1120 / 1088	120k / 76k
Raspberry-pi3		10172	63036 / 34260	1120 / 1088	134k / 76k

*Note: ROM/RAM size is basic requirement of BSEC. File size doesn't count.