## Available Applications

The Talaria TWO SDK includes a variety of sample applications and application notes. The following sample scenarios describes programming Talaria TWO. The sample scenarios utilize the SSBL and FOTA application. It also assumes that the necessary applications and files have already been built.

|  |  |
| --- | --- |
| **Image/Application** | **Size/sectors** |
| Fast\_ssbl.img | 96060, 24 |
| fota.elf.strip | 535292, 129 |
| helloworld.elf.strip | 72196, 18 |

Table 3: Sample applications with sizes

## Normal Boot + Single application without backup (demo mode)



Figure 12: SSBL + User Application

Figure 12 shows the flash layout when using SSBL with a simple application. In this scenario, the SSBL boot image is flashed at 0x1000 and the stripped application ELF image is flashed at 0x20000. A filesystem used by SSBL is also flashed at 0x180000.

Following is the sample json config file for this scenario:

|  |
| --- |
| {  "BOOT\_TYPE": {  "SECUREBOOT": false  },  "BOOT\_IMAGE": {  "IMG\_FILE": "./images/fast\_ssbl.img"  },  "VERIFY": false,  "IMAGES": {  "APP\_IMAGES":[  {  "ELF\_FILE": "./ELFS/helloworld.elf.strip",  "ADDR": "0x20000"  }  ]  },  "PARTITION": {  "PART\_FILE": "ssbl\_part\_table.json"  },  "USER\_FS": {  "MOUNT\_ADDR": "0x180000",  "FS\_TYPE": "littlefs",  "FS\_SIZE": "0x70000",  "UFS\_DIR": "./root\_helloworld"  }  } |

## Normal Boot + FOTA Application + Application + Backup Application

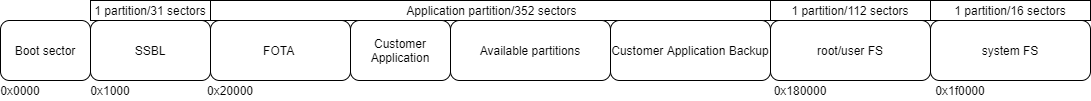


Figure 13: Normal Boot + FOTA + User Application

Figure 13 shows the flash layout when using SSBL with FOTA and a customer application. In this scenario, the SSBL boot image is flashed at 0x1000, the FOTA application is stored at 0x20000, and the customer application is stored at the next available sector (0x8f000). A filesystem used by SSBL and FOTA is flashed at 0x180000.

Following is the sample json config file for this scenario:

|  |
| --- |
| {  "BOOT\_TYPE": {  "SECUREBOOT": false  },  "BOOT\_IMAGE": {  "IMG\_FILE": "./images/fast\_ssbl\_legacy.img"  },  "VERIFY": false,  "IMAGES": {  "APP\_IMAGES":[  {  "ELF\_FILE": "./ELFS/fota\_standalone.elf.strip",  "ADDR": "0x20000"  },  {  "ELF\_FILE": "./ELFS/fota\_test.elf.strip",  "ADDR": "0x8f000"  }  ]  },  "PARTITION": {  "PART\_FILE": "ssbl\_part\_table.json"  },  "USER\_FS": {  "MOUNT\_ADDR": "0x180000",  "FS\_TYPE": "littlefs",  "UFS\_DIR": "./UFS\_FOTA"  }  } |