## NonFOTA flash map <=1024KB RF\_CAL Parm Area blank.bin DFLT RF\_CAL Parm Area esp\_init\_data\_default.bin SystemParm Area blank.bin System program eagle.flash.bin System program eagle.irom0text.bin User data Flash 512 4KB 0x7B000 12KB 0x7E000 <=64KB <=368KB >=60KB 0x00000 0x10000 0x7C000 1024 <=64KB <=752KB 0x10000 >=176KB 4KB 4KB 12KB 0x00000 <=64KB 0x00000 0xFB000 0xFC000 0xFE000 2048 <=768KB 0x10000 >=176KB 4KB 0x1FB000 4KB 0x1FC000 12KB 0x1FE000

>=176KB

>=176KB

>=176KB

4KB 0x3FB000

0x7FB000

0xFFB000

4KB

4KB

4KB 0x3FC000

0x7FC000

0xFFC000

4KB

4KB

12KB 0x3FE000 12KB 0x7FE000

0xFFE000

12KB

<=768KB 0x10000

<=768KB

0x10000

<=768KB

0x10000

Use esptool to load 8 and 16 MB flash

<=64KB 0x00000

<=64KB

0x00000

<=64KB

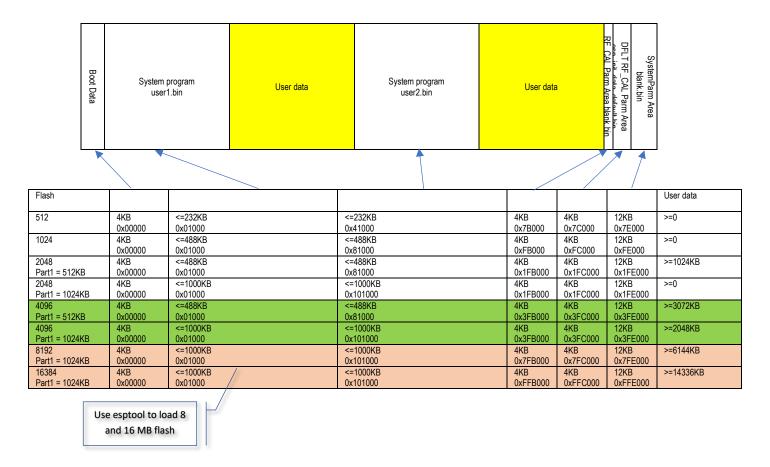
0x00000

4096

8192

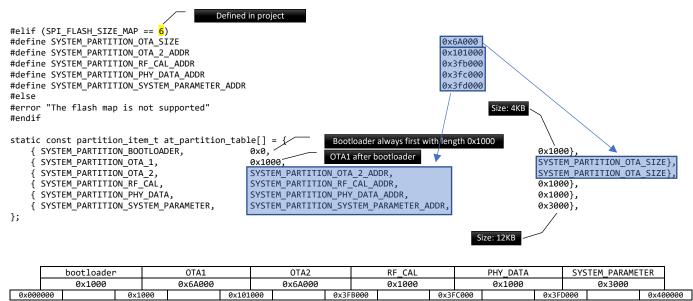
16384

## FOTA flash map



Please note – presented above memory sizes and location addresses are taken from official Espressif documentation but they do not match each other. SystemParm Area and DFLT RF\_CAL Parm Area have 8KB and RF CAL Parm Area has 4KB.

## Following sizes and addresses are based on code from SDK examples



- **System Program:** This area stores the firmware necessary for the system to run.
- **User Data:** If the system data do not take up all the flash memory, the remaining area can be used to store user data. It is recommended that the user reserve at least 12 KB in the user data area to store user parameters.
- **RF\_CAL Parameter:** The system automatically stores the calibrated RF parameters in this area.
- Default RF Parameter: Download esp\_int\_data\_default.bin in this area to store the default RF parameters.
- **System Parameter Area:** This area stores the system parameters.
- Boot Data: It is located in Partition 1 of the FOTA firmware, and stores boot data.