 安全算法及掩码如下

（1）安全算法

const uint32 APP\_MASK = 0xXXXXXXXX;

uint32 canculate\_app\_security\_access\_xxx(uint32 seed, uint32 APP\_MASK)

{

uint32 tmpseed = seed;

uint32 key\_1 = tmpseed ^ APP\_MASK;

uint32 seed\_2 = tmpseed;

seed\_2 = (seed\_2 ^ 0x66666666) << 1 ^ (seed\_2 ^ 0xBBBBBBBB) >> 1;

seed\_2 = (seed\_2 ^ 0x44444444) << 2 ^ (seed\_2 ^ 0xDDDDDDDD) >> 2;

seed\_2 = (seed\_2 ^ 0x0F0F0F0F) << 4 ^ (seed\_2 ^ 0xF0F0F0F0) >> 4;

seed\_2 = (seed\_2 ^ 0x00FF00FF) << 8 ^ (seed\_2 ^ 0xFF00FF00) >> 8;

seed\_2 = (seed\_2 ^ 0x0000FFFF) << 16 ^ (seed\_2 ^ 0xFFFF0000) >> 16;

uint32 key\_2 = seed\_2 & APP\_MASK;

uint32 key = key\_1 + key\_2;

return key;

}

（2）掩码

|  |  |  |  |
| --- | --- | --- | --- |
| **控制器名称** | **mask** | **seed** | **参考-key** |
| VCU(0799 0791) | 113289D7 | D575A2FF | D469B42D |
| BMS(0728 0720) | 1101D43A | 11F5E71F | 1F4C735 |