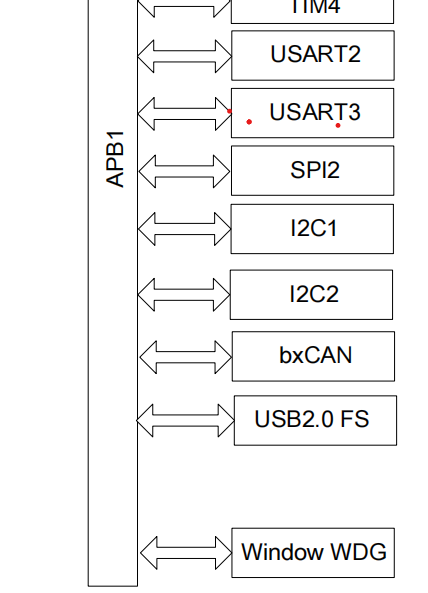
**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Revision** | **Author** | **Changes** |
| 2022/1/24 | 1.0 | Tim | Initial version. |
| 2022/4/11 | 1.1 | Tim | Modified some api |

IP Description:



## Feature set: （功能列表）：

1.窗口看门狗

2.32位自由运行递减计数器

3.计数器可在debug模式下停止

4.时钟由APB1总线时钟分频

## Feature comparison with STM32: （跟STM32的功能比较）

|  |  |  |
| --- | --- | --- |
| 符号描述：   1. ✅支持 2. ❌不支持 3. ❌硬件有，但SDK计划不支持 | AT1K | STM32 |
| 窗口看门狗 | ✅ | ✅ |
| 独立看门狗 | ❌ | ✅ |

API Design:

|  |  |  |
| --- | --- | --- |
|  | AT103 | STM32 |
| init/de-init | void WWDG\_Disable() | WWDG\_DeInit |
| config | void WWDG\_SetPrescaler(uint32\_t WWDG\_Higher\_Prescaler, uint32\_t WWDG\_Lower\_Prescaler); | WWDG\_SetPrescaler(uint32\_t WWDG\_Prescaler) |
|  | void WWDG\_SetresetpulseLength(uint8\_t clockcycles)  void WWDG\_Set\_TimeoutRange(uint8\_t clockcycles) | void WWDG\_SetWindowValue(uint8\_t WindowValue) |
| enable | void WWDG\_Enable(uint8\_t Counter) | void WWDG\_EnableIT(void)  void WWDG\_Enable(uint8\_t Counter) |
| interrupt | FlagStatus WWDG\_GetFlagStatus(void)  void WWDG\_ClearFlag(void) | FlagStatus WWDG\_GetFlagStatus(void)  void WWDG\_ClearFlag(void) |