

	STM32L1	STM32L4
	Default mode is <b>Digital Input</b>	Default mode is <b>Analog</b>
	Alternative functions are different.	Alternative functions are different.
	AF0 SYSTEM AF1 TIM2 AF2 TIM3/TIM4/TIM5 AF3 TIM9/TIM10/TIM11 AF4 I2C1/I2C2 AF5 SPI1/SPI2 AF6 SPI3 AF7 USART1/ USART2/ USART3 AF8 UART4/UART5 AF9 AF10 USB AF11 LCD AF12 FSMC AF13 AF14 RI AF15 EVENTOUT	AF0 SYSTEM AF1 TIM1/TIM2/TIM5/TIM8/LPTIM1 AF2 TIM1/TIM2/TIM3/TIM4/TIM5 AF3 TIM8 AF4 I2C1/I2C2/I2C3 AF5 SPI1/SPI2 AF6 SPI3/DFSDM AF7 USART1/USART2/ USART3 AF8 UART4/UART5/LPUART1 AF9 CAN1/TSC AF10 OTG_FS/QUADSPI AF11 LCD AF12 SDMMC1/COMP1/COMP2/FMC/SWPMI1 AF13 SAI1/SAI2 AF14 TIM2/TIM15/TIM16/TIM17/LPTIM2 AF15 EVENTOUT
<b>GPIO</b>		Add a new register <b>GPIO_ASCR</b> (Analog Switch Control Register)  0: Disconnect analog switch to the ADC input 1: Connect analog switch to the ADC input  <pre>typedef struct {     __IO uint32_t MODER;     __IO uint32_t OTyPER;     __IO uint32_t OSPEEDR;     __IO uint32_t PUPDR;     __IO uint32_t IDR;     __IO uint32_t ODR;     __IO uint32_t BSRR;     __IO uint32_t LCKR;     __IO uint32_t AFR[2];     __IO uint32_t BRR;     <b>__IO uint32_t ASCR;</b> } GPIO_TypeDef;</pre> For example, to use PA.2 as analog ADC input: <b>GPIOA-&gt;ASCRR  = 1U&lt;&lt;2;</b>