5 Memory mapping

0xFFFF FFFF 0xBFFF FFFF Reserved Cortex™-M4 0xA000 1400 with FPU 7 QUADSPI registers Internal 0xA000 1000 Peripherals 0xE000 0000 0x5FFF FFFF Reserved 6 0x5006 0C00 AHB2 0x4800 0000 0xC000 0000 Reserved 0x4002 4400 QUADSPI AHB1 registers 5 0x4002 0000 Reserved 0xA000 1000 0x4001 5800 APB2 0xA000 0000 0x4001 0000 QUADSPI Flash Reserved bank 0x4000 9800 0x9000 0000 APB1 0x4000 0000 0x1FFF FFFF 0x8000 0000 3 Reserved 0x6000 0000 0x1FFF 7810 Options Bytes 2 0x1FFF 7800 Reserved 0x1FFF 7400 Peripherals OTP area 0x4000 0000 0x1FFF 7000 System memory 1 0x1FFF 0000 SRAM2 Reserved 0x2000 C000 0x1000 4000 SRAM1 SRAM2 0x2000 0000 0x1000 0000 Reserved 0 0x0804 0000 CODE Flash memory 0x0800 0000 Reserved 0x0000 0000 0x0004 0000 Flash, system memory or SRAM, depending on BOOT configuration 0x0000 0000 Reserved MSv36892V2

Figure 6. STM32L432xx memory map

Table 17. STM32L432xx memory map and peripheral register boundary addresses⁽¹⁾

Bus	Boundary address	Size(bytes)	Peripheral
AHB2	0x5006 0800 - 0x5006 0BFF	1 KB	RNG
	0x5004 0400 - 0x5006 07FF	158 KB	Reserved
	0x5004 0000 - 0x5004 03FF	1 KB	ADC
	0x5000 0000 - 0x5003 FFFF	16 KB	Reserved
	0x4800 2000 - 0x4FFF FFFF	~127 MB	Reserved
	0x4800 1C00 - 0x4800 1FFF	1 KB	GPIOH
	0x4800 0C00 - 0x4800 1BFF	4 KB	Reserved
	0x4800 0800 - 0x4800 0BFF	1 KB	GPIOC
	0x4800 0400 - 0x4800 07FF	1 KB	GPIOB
	0x4800 0000 - 0x4800 03FF	1 KB	GPIOA
-	0x4002 4400 - 0x47FF FFFF	~127 MB	Reserved
	0x4002 4000 - 0x4002 43FF	1 KB	TSC
	0x4002 3400 - 0x4002 3FFF	1 KB	Reserved
	0x4002 3000 - 0x4002 33FF	1 KB	CRC
	0x4002 2400 - 0x4002 2FFF	3 KB	Reserved
A.I.D.4	0x4002 2000 - 0x4002 23FF	1 KB	FLASH registers
AHB1	0x4002 1400 - 0x4002 1FFF	3 KB	Reserved
	0x4002 1000 - 0x4002 13FF	1 KB	RCC
	0x4002 0800 - 0x4002 0FFF	2 KB	Reserved
	0x4002 0400 - 0x4002 07FF	1 KB	DMA2
	0x4002 0000 - 0x4002 03FF	1 KB	DMA1
	0x4001 5800 - 0x4001 FFFF	42 KB	Reserved
	0x4001 5400 - 0x4000 57FF	1 KB	SAI1
	0x4001 4800 - 0x4000 53FF	3 KB	Reserved
	0x4001 4400 - 0x4001 47FF	1 KB	TIM16
	0x4001 4000 - 0x4001 43FF	1 KB	TIM15
APB2	0x4001 3C00 - 0x4001 3FFF	1 KB	Reserved
	0x4001 3800 - 0x4001 3BFF	1 KB	USART1
	0x4001 3400 - 0x4001 37FF	1 KB	Reserved
	0x4001 3000 - 0x4001 33FF	1 KB	SPI1
	0x4001 2C00 - 0x4001 2FFF	1 KB	TIM1
	0x4001 2000 - 0x4001 2BFF	3 KB	Reserved

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Table 17. STM32L432xx memory map and peripheral register boundary addresses⁽¹⁾ (continued)

Bus	Boundary address	Size(bytes)	Peripheral
APB2	0x4001 1C00 - 0x4001 1FFF	1 KB	FIREWALL
	0x4001 0800- 0x4001 1BFF	5 KB	Reserved
	0x4001 0400 - 0x4001 07FF	1 KB	EXTI
	0x4001 0200 - 0x4001 03FF		COMP
	0x4001 0030 - 0x4001 01FF	1 KB	Reserved
	0x4001 0000 - 0x4001 002F		SYSCFG
	0x4000 9800 - 0x4000 FFFF	26 KB	Reserved
	0x4000 9400 - 0x4000 97FF	1 KB	LPTIM2
	0x4000 8C00 - 0x4000 93FF	2 KB	Reserved
	0x4000 8800 - 0x4000 8BFF	1 KB	SWPMI1
	0x4000 8400 - 0x4000 87FF	1 KB	Reserved
	0x4000 8000 - 0x4000 83FF	1 KB	LPUART1
	0x4000 7C00 - 0x4000 7FFF	1 KB	LPTIM1
	0x4000 7800 - 0x4000 7BFF	1 KB	OPAMP
	0x4000 7400 - 0x4000 77FF	1 KB	DAC1
	0x4000 7000 - 0x4000 73FF	1 KB	PWR
	0x4000 6C00 - 0x4000 6FFF	1 KB	USB SRAM
	0x4000 6800 - 0x4000 6BFF	1 KB	USB FS
	0x4000 6400 - 0x4000 67FF	1 KB	CAN1
APB1	0x4000 6000 - 0x4000 63FF	1 KB	CRS
	0x4000 5C00- 0x4000 5FFF	1 KB	I2C3
	0x4000 5800 - 0x4000 5BFF	1 KB	Reserved
	0x4000 5400 - 0x4000 57FF	1 KB	I2C1
	0x4000 4800 - 0x4000 53FF	3 KB	Reserved
	0x4000 4400 - 0x4000 47FF	1 KB	USART2
	0x4000 4000 - 0x4000 43FF	1 KB	Reserved
	0x4000 3C00 - 0x4000 3FFF	1 KB	SPI3
	0x4000 3400 - 0x4000 3BFF	2 KB	Reserved
	0x4000 3000 - 0x4000 33FF	1 KB	IWDG
	0x4000 2C00 - 0x4000 2FFF	1 KB	WWDG
	0x4000 2800 - 0x4000 2BFF	1 KB	RTC
	0x4000 1800 - 0x4000 27FF	4 KB	Reserved
	0x4000 1400 - 0x4000 17FF	1 KB	TIM7

Table 17. STM32L432xx memory map and peripheral register boundary addresses⁽¹⁾ (continued)

Bus	Boundary address	Size(bytes)	Peripheral
APB1	0x4000 1000 - 0x4000 13FF	1 KB	TIM6
	0x4000 0400- 0x4000 0FFF	3 KB	Reserved
	0x4000 0000 - 0x4000 03FF	1 KB	TIM2

^{1.} The gray color is used for reserved boundary addresses.

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