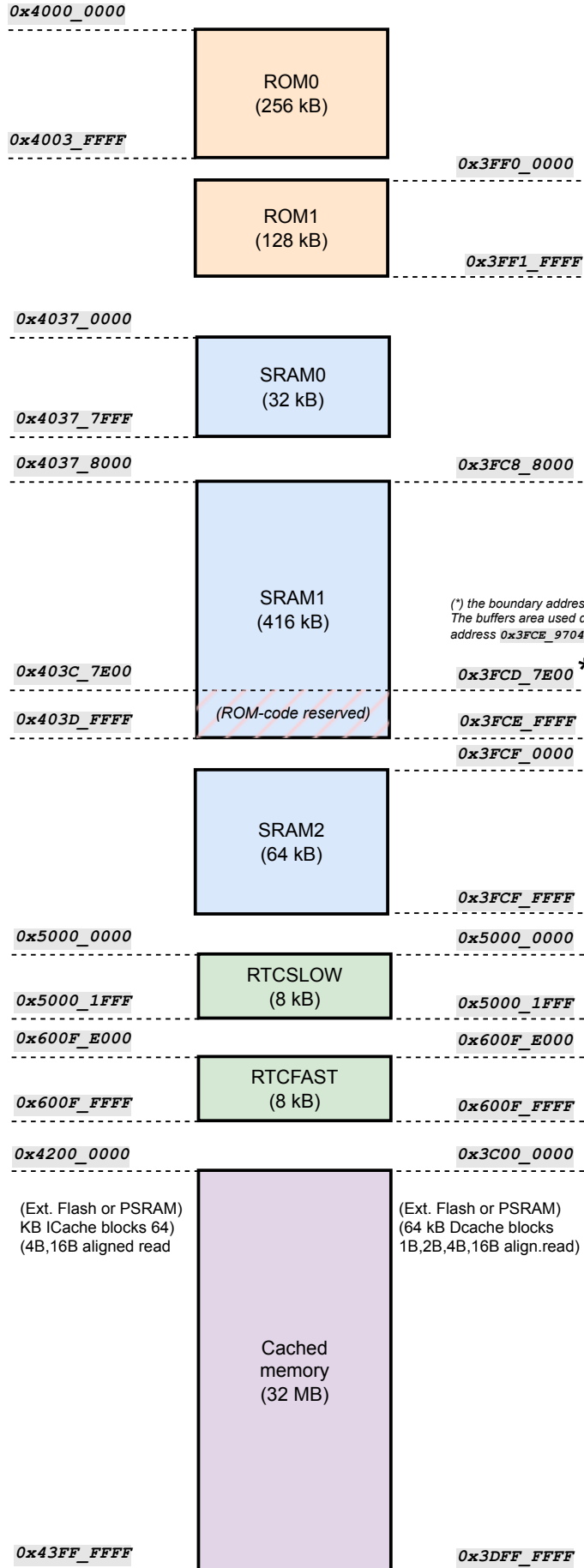




# ESP32-S3 Memory Map

I-bus

D-bus




0x6000\_0000



ESP32-S3

Peripherals

0x6000_0000	UART0
0x6000_2000	SPI1
0x6000_3000	SPI0
0x6000_4000	GPIO
0x6000_4F00	GPIO_SD
0x6000_5000	FE2
0x6000_6000	FE
0x6000_7000	EFUSE
0x6000_8000	RTCCNTL
0x6000_8400	RTCIO
0x6000_8800	SENS
0x6000_8C00	RTC_I2C
0x6000_9000	IO_MUX
0x6000_B000	HINF
0x6000_C000	UHCI1
0x6000_F000	I2S
0x6001_0000	UART1
0x6001_1000	BT
0x6001_3000	I2C_EXT
0x6001_4000	UHCI0
0x6001_5000	SLCHOST
0x6001_6000	RMT
0x6001_7000	PCNT
0x6001_8000	SLC
0x6001_9000	LEDC
0x6001_CC00	NRX
0x6001_D000	BB
0x6001_E000	PWM0
0x6001_F000	TIMERGROUP0
0x6002_0000	TIMERGROUP1
0x6002_1000	RTC_SLOWMEM
0x6002_3000	SYSTIMER
0x6002_4000	SPI2
0x6002_5000	SPI3
0x6002_6000	SYSCON (APB_CTRL)
0x6002_7000	I2C1_EXT
0x6002_8000	SDMMC
0x6002_A000	PERI_BACKUP
0x6002_B000	TWAI
0x6002_C000	PWM1
0x6002_D000	I2S1
0x6002_E000	UART2
0x6003_8000	USB_SERIAL_JTAG
0x6003_9000	USB_WRAP (USB ext.ctrl. regs)
0x6003_A000	AES
0x6003_B000	SHA
0x6003_C000	RSA
0x6003_D000	DIGITAL_SIGNATURE
0x6003_E000	HMAC
0x6003_F000	GDMA
0x6004_0000	APB_SARADC
0x6004_1000	LCD_CAM
0x6008_0000	USB_CORE
0x600C_0000	SYSTEM
0x600C_1000	SENSITIVE
0x600C_2000	INTERRUPT
0x600C_4000	EXTMEM
0x600C_E000	ASSIST_DEBUG
0x600D_0000	WCL

	<b>Blk#</b>	<b>Bits</b>	<b>Purpose</b>
 <b>ESP32-S3</b>	0	640	SYSTEM
	1	288	MAC, SPI_PAD, SYS_DATA0
	2	352	SYS_DATA1
	3	352	USR_DATA*
	4	352	KEY0_DATA*
	5	352	KEY1_DATA*
	6	352	KEY2_DATA*
	7	352	KEY3_DATA*
	8	352	KEY4_DATA*
	9	352	KEY5_DATA*
	10	352	SYS_DATA2
<b>e-Fuses</b>	(*) RD/WR can be disabled		