Color	0x0000FF	Address/range	- -> means same as the previous cycle																				
SM clock signal																							
SM cycle count			1		2		3		4		5		6		7		8		9		10		FINAL (after all BULE (0x0000ff) bits were sent)
Time			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Current Instruction			L1(OUT)						L2(JMP)				L3/L4(NOP)										
	CTRL	50200000	0x00000001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0x00000001
	FSTAT	50200004	0x0f000f01																			0x0f000f01	0x0f000f01
	FDEBUG	50200008	0x00000000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0x01000e00	0x01000e00
	FLEVEL	5020000c	0x00000000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SM0_CLKDIV	502000c8	0x000fa000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SM0_EXECCTRL	502000cc	0x00017a00																			0x00013800	0x00013800
	SM0_SHIFTCTRL	502000d0	0x40060000																			0x40060000	0x40060000
	SM0_ADDR	502000d4	0x00000014																			0x00000010	0x00000010
	SM0_INSTR	502000d8	0x00006221	0x00006221	0x00006221	0x00006221	0x00006221	0x00006221	0x00001123	0x00001123	0x00001123	0x00001123	0x0000a442	0x0000a442	0x0000a442	0x0000a442	0x0000a442	0x0000a442	0x0000a442	0x0000a442	0x0000a442	0x00006221	0x00006221
PIO	SM0_PINCTRL	502000dc	0x20003000																			0x20003000	0x20003000
GPIO status register		0x40014058	0x070e3300	0x070e3300	0x070e3300	0x070e3300	0x070e3300	0x070e3300															
RGBC Data Register		0x0000FF00																					
GPIO output pin voltage		1.8/3.3	1.8	1.8	1.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
WS2812 serial input pin voltage		0.7VDD/0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.7VDD
WS2812 supply voltage	LUM RED	1.8-2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LUM GREEN	3.0-3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	LUM BLUE	3.2-3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2-3.4 V
WS2812 Luminance	RED	550-700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN	1100-1400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BLUE	200-400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200-400
APDS-9960 Photodiode output voltage	RED	-0.3 - 3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN	-0.3 - 3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BLUE	-0.3 - 3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.8V
	CLEAR	-0.3 - 3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.8 V
ATIME=0xfe	27.8ms																						