Color	0x0000FF	Address/range																_				_		Notes	RELA	ATED CODE
SM clock signal																								Delay cycle clock	static const uint lot ws	(2812 program instructions[] = )
SM cycle count				1		2		3	4	1	5			6				В		)	1	0	FINAL (after all	Cycle Counter	11.	.wrap_target
	Time		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	BULE (0x0000ff) bits	Zoom in	0x6221,//	0: out x, 1 side 0 [2]
Curren	nt Instruction		L1(OUT)						L2(JMP)								L3/L4	L3/L4(NOP)						Instruction flow	0x1123, // 1	1: jmp 1x, 3 side 1 [1]
PIO	CTRL	50200000	0x00000001	Activate state machine 0	0x1400,7	/ 2: jmp 0 side 1 [4]																				
	FSTAT	50200004	0x0f000f01	0x0f000f01	0x0f000f01	0x06000601	0x0f000f01	as data have already plug into output shift register	0xa442,	// 3: nop side 0 [4]																
	FDEBUG	50200008	0x01000e00	0x01000e00	0x00000000	0x01000e00	0x01000e00	0x01000e00	UT with auto PULL eanble, stalled.		// .wrap															
	FLEVEL	5020000c	0x00000000	FIFO level	31																					
	SM0_CLKDIV	502000c8	0x000fa000	Clock dividor not change																						
	SM0_EXECCTRL	502000cc	0x00017a00	0x00013800	0x00013800	Stalled during the instruction																				
	SM0_SHIFTCTRL	502000d0	0x40060000	Set auto PULL																						
	SM0_ADDR	502000d4	0x00000014	0x00000014	0x00000014	0x00000014	0x00000014	0x00000014	0x00000010	ow the address of current instruction																
	SM0_INSTR	502000d8	0x00006221	0x00006221	0x00006221	0x00006221	0x00006221	0x00006221	0x00001123	0x00001123	0x00001123	0x00001123	0x0000a442	0x00006221	0x00006221	Changed with instruction change										
	SM0_PINCTRL	502000dc	0x00003000	0x00003000	0x00003000	0x00003000	0x00003000	0x00003000	0x20003000	0x20003000	0x20003000	0x20003000	0x00003000	0x20003000	0x20003000	Changed wth side-set										
GPIO s	tatus register	0x40014060	0x00003000	0x00003000	0x00003000	0x00003000	0x00003000	0x00003000	0x20003000	0x20003000	0x20003000	0x20003000	0x00003000	0x20003000	0x20003000	seams connect to SM0_PINCTRL										
	Data Register	0x0000FF00	0x0000FF00	0x0000FF00	0x0001FE00		o the register will contain the RGB data we set, when	we sent data bit by I	bit, it will continue shit left !																	
GPIO ou	tput pin voltage	1.8/3.3	1.8(LOW)	1.8(LOW)	1.8(LOW)	1.8(LOW)	1.8(LOW)	1.8(LOW)	3.3	3.3	3.3	3.3	1.8(LOW)	3.3												
WS2812 serial input pin voltage		0.7VDD/0.3VDD(VDD=3v)	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.7VDD	0.7VDD	0.7VDD	0.7VDD	0.3VDD	0.7VDD	ime time, the low/high output corre											
WS2812 supply voltage	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			
	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			
	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	he results after we send all RGB 2		
ATIME=0xfe																										