Addr Shift	Regs	BE1	BE3	BE9x	ВЦ1901	BE4	BK214	BE234			
	-0-				,						
0x00	ADC1 CFG	+	+	+	+	+	+	+			
	ADC2_CFG	+	+	+	+	+	+	+			
0x08	ADC1_H_Level	+	+	+	+	+	+	+			
	ADC2_H_Level	-	-	+	+	-	-	-			
0x10	ADC1_L_Level	+	+	+	+	+	+	+			
0x14	ADC2_L_Level	-	-	+	+	-	-	-			
0x18	ADC1_RESULT	+	+	+	+	+	+	+			
0x1C	ADC2_RESULT	-	-	+	+	-	-	-			
0x20	ADC1_STATUS	+	+	+	+	+	+	+			
0x24	ADC2_STATUS	-	-	+	+	-	-	-			
0x28	ADC1_CHSEL	+	+	+	+	+	+	+			
0x2C	ADC2_CHSEL	-	-	+	+	-	-	-			
0x30	ADC1_TRIM	+	+	-	-	+	+	+			
	BaseAddr		0x4008	3_8000			0x4004_0000	•			
							_				
	ADC_Ch0	PD7/ref+	PD7/ref+	PD0/ref+	PD0/ref+	PC4/ref-	PC4/ref-	PC4/ref-			
	ADC_Ch1	PD8/ref-	PD8/ref-	PD1/ref-	PD1/ref-	PC3/ref+	PC3/ref+	PC3/ref+			
	ADC_Ch2	PD9	PD9	PD2				PC2			
	ADC_Ch3	PD10	PD10	PD3	PD3	PC1	PC1	PC1			
	ADC_Ch4	PD11	PD11	PD4	PD4	PB9	PB9	PB9			
	ADC_Ch5	PD12	PD12	PD5	PD5	PB8	PB8	PB8			
	ADC_Ch6	PD13	PD13	PD6	PD6	PB7	PB7	PB7			
	ADC_Ch7	PD14	PD14	PD7	PD7	PB6	PB6	PB6			
	ADC_Ch8			PD8	PD8						
	ADC_Ch9			PD9	PD9						
	ADC_Ch10			PD10	PD10						
	ADC_Ch11			PD11	PD11						
	ADC_Ch12			PD12	PD12						
	ADC_Ch13			PD13	PD13						
	ADC_Ch14			PD14	PD14						
	ADC_Ch15			PD15	PD15						
	ADC_Ch30	TS_Vref/TS	_Buff_Vref	TS_	Vref	TS	_Vref/TS_Buff_V	/ref			
	ADC_Ch31		Temperature from thermosensor								
0x00	ADC1_CFG										
0	ADON	+	+	+	+	+	+	+	1: On, 0: Off		
1	GO	+	+	+	+	+	+	+	WR 1: Start, Autoclear		
2	CLKS	+	+	+	+	+	+	+	0: CLK = CPU_CLK/DIV_CLK, 1: CLK = ADC_CLK		
3	SAMPLE	+	+	+	+	+	+	+	0: Single measurement, 1: Continuous measurements		
48	CHS	+	+	+	+	+	+		0 - 31: Active channel		
9	СНСН	+	+	+	+	+	+	+	0: only CHS channel, 1: ADCx_CHSEL channels switching		
10	RNGC	+	+	+	+	+	+	+	1: STATUSx.AWOIFEN flag enable (out of levels region)		
11	M_REF	+	+	+	+	+	+	+	0: Ref [AGND AUcc], 1: [ADC_Ref ADC_Ref+]		
1215	DIV_CLK	+	+	+	+	+	+		0b1011 = 1, 2, 4 2048, other CLK = CPU_CLK		
16	SYNC_CONV	always set 0	always set 0	+	+	always set 0	always set 0	always set 0	0: Independent, 1: Sync (uses DIV_CLK, ADON, M_REF, CHS from CFG1)		
17	TS_EN	+	+	+	+	+	+	+	1: ThermoSensor (TS) Enable, 0 - Off		

18	TS BUFF EN	+	+	+	+	+	+	+	1: ThermoSensor buffer enable, 0 - Off
19	SEL_TS	+	+	+	+	+	+	<u> </u>	0: Thermo signal unavailable, 1: Bind to 31 channel (CHS = 31)
20	SEL VREF	+	+	+	+	+	+	+	1: Bind TS_vref 1,23V to channel 30
2124	TR		_	+	+	_		-	1,215 V- 1,193V TS Vref tuning
2527	Delay_Go	+	+	+	+	+	+		0 - 7: Delay after channel switching of 1 8 CPU_CLK
2831	Delay_ADC	<u>.</u>	<u>-</u>	+	+	-			0-7: Delay between ADC1 and ADC2 start of 1-16 CPU_CLK
2031	Delay_ADC	0x0E1E_FFFF	0x0E1E FFFF	0xffff ffff	0xffff ffff	0x0E1E FFFF	0x0E1E FFFF	0x0E1E FFFF	
		OXOLIL_IIII	OXOLIL_IIII	0X1111_1111	OXIIII_IIII	OXOLIL_IIII	OXOLIL_IIII	OXOLIL_IIII	
0x04	ADC2_CFG								
0	ADON	-	-	+	+	-	-	-	1: On, 0: Off
1	GO	-	-	+	+	-	-	-	WR 1: Start, Autoclear
2	CLKS	-	-	+	+	-	-	-	0: CLK = CPU_CLK/(DIV_CLK + 1), 1: CLK = ADC_CLK
3	SAMPLE	-	-	+	+	-	-	-	0: Single measurement, 1: Continuous measurements
48	CHS	-	-	+	+	-	-	-	0 - 31: Active channel
9	СНСН	-	-	+	+	-	-	-	0: only CHS channel, 1: ADCx_CHSEL channels switching
10	RNGC	-	-	+	+	-	-	-	1: STATUSx.AWOIFEN flag enable (out of levels region)
11	M_REF	-	-	+	+	-	-	-	0: Ref [AGND AUcc], 1: [ADC_Ref ADC_Ref+]
1215	DIV_CLK	-	-	+	+	-	-		0b1011 = 1 2048, other CLK = CPU_CLK
16	-	-	-	-	-	-	-	-	· =
17	ADC1 OP	+	+	+	+	+	+	+	0 - Own Uref, 1: ThermoSensor's Vref (TS_EN = 1)
18	ADC2 OP	-	_	+	+	_	-		0 - Own Uref, 1: ThermoSensor's Vref (TS_EN = 1)
1924	1.2.02_01	-	_	_	_	_	-	-	
2527	Delay_Go	-	_	+	+	-	-	-	0 - 7: Delay after channel switching of 1 8 CPU_CLK
2831	Delay_Go	-	_	<u> </u>	_	_	-	_	7. Belay after channel switching of 1.1.0 of 0_eER
2051		0x0002_0000	0x0002_0000	0x0E06FFFF	0x0E06FFFF	0x0002_0000	0x0002_0000	0x0002_0000	
		0.0002_0000	0.0002_0000	CAGEGOTTT	OXOLOGITIT	0.0002_0000	0.0002_0000	0.0002_0000	
0x08	ADC1_H_Level	+	+	+	+	+	+	+	
0x0C	ADC2_H_Level	-	-	+	+	-	-	-	
0x10	ADC1_L_Level	+	+	+	+	+	+	+	
0x14	ADC2_L_Level	-	-	+	+	-	-	-	
011	Level Max/Min			-					
0									
0x18	ADC1_RESULT	+	+	+	+	+	+	+	
0x1C	ADC2_RESULT	-	-	+	+	-	-	-	
011	Result								
1620	Channel								
0x20	ADC1_STATUS	+	+	+	+	+	+	+	
0x24	ADC2_STATUS	-	-	+	+	-	-	-	
0	OVERWRITE								1: result owerwritten (was not read)
1	AWOIFEN								1: signal out of range
2	EOCIF								1: result ready
3	AWOIF_IE								1: IRQ Enable on signal outs of range
4	EOCIF_IE								1: IRQ Enable on result ready

0x28	ADC1_CHSEL	+	+	+	+	+	+	+	
0x2C	ADC2_CHSEL	-	-	+	+	-	-	-	
031									1: channel selected for switching measure
0x30	ADC1_TRIM	+	+	-	-	+	+	+	
15	TS_TRIM								ThermoSensor Vref trim
6	SEL_VREF_BUF								1: Bind TS_BUF_vref 1,23V to channel 30
									https://startmilandr.ru/doku.php/doc:doclist:adc

		Init	InitADC1	InitADC2	InitSyncMode	FinitSyncMode	RunChannel	RunSelected	RunTS_Temp	RunTS_Vref	RunTS_VrefB	
0x00	ADC1_CFG											
0	ADON	0	0	0			1	1	1	1	1	
1	GO	0	0	0			1	1	1	1	1	
2	CLKS	0	х	х								
3	SAMPLE	0	0	0			х	х	х	х	х	Cyclic
48	CHS	0	0	0			1	0	1	1	1	
9	СНСН	0	0	0			0	1	0	0	0	
10	RNGC	0	0	0			х	х	х	х	х	LimCfg set
11	M_REF	0	х	х								
1215	DIV_CLK	0	х	х								
16	SYNC_CONV	0			х	0						ADC1 Only
17	TS_EN	х										
18	TS_BUFF_EN	0	0	0			0	0	1	1	1	
19	SEL_TS	0	0	0			0	0	1	0	0	
20	SEL_VREF	0	0	0			0	0	0	1	0	
2124	TR	х										
2527	Delay_Go	0	х	х								
2831	Delay_ADC	0			х	0						
2.22		-	-				1	ļ	<u> </u>		-	
0x30	ADC1_TRIM								1			
15	TS_TRIM	x		 								<u> </u>
6	SEL_VREF_BUF	0	0	0			0	0	0	0	1	
0x04	ADC2_CFG							+	+		+	
17	ADC1_OP	х	†			†	†	+	†			
18	ADC2_OP	x	1				1	1	1			
									1			
	1		1				1		1			
	1	х - Входной па	эраметр в функ	. цию	•	•	,	•				