

Addr Shift	Regs	BE1	BE3	BE9x	BL1901	BE4	BK214	BE234	
0x00	ADC1_CFG	+	+	+	+	+	+	+	
0x04	ADC2_CFG	+	+	+	+	+	+	+	
0x08	ADC1_H_Level	+	+	+	+	+	+	+	
0x0C	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_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	PD2	PC2	PC2	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_Vref			
	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
4..8	CHS	+	+	+	+	+	+	+	0 - 31: Active channel
9	CHCH	+	+	+	+	+	+	+	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+]
12..15	DIV_CLK	+	+	+	+	+	+	+	0..b1011 = 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

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0x28	ADC1_CHSEL	+	+	+	+	+	+	+	
0x2C	ADC2_CHSEL	-	-	+	+	-	-	-	
0..31									1: channel selected for switching measure
0x30	ADC1_TRIM	+	+	-	-	+	+	+	
1..5	TS_TRIM								ThermoSensor Vref trim
6	SEL_VREF_BUF								1: Bind TS_BUF_vref 1,23V to channel 30
									<a href="https://startmilandr.ru/doku.php/doc:doclist:adc">https://startmilandr.ru/doku.php/doc:doclist:adc</a>

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