

Pin Grid

ADC Basic

▼ Basic Settings

Custom Name	ADC1
Resolution	12
Conversion Time (us)	Refer PLIB for the Calculations. 0.37
Data Output Format	<input checked="" type="radio"/> Integer <input type="radio"/> Fractional
Common Interrupt	<input type="checkbox"/>
Pin Help	Pin Selection should only be done using the table. Channel Enable checkbox selects the corresponding analog channel and auto locks the analog pin in the Pins Grid View.

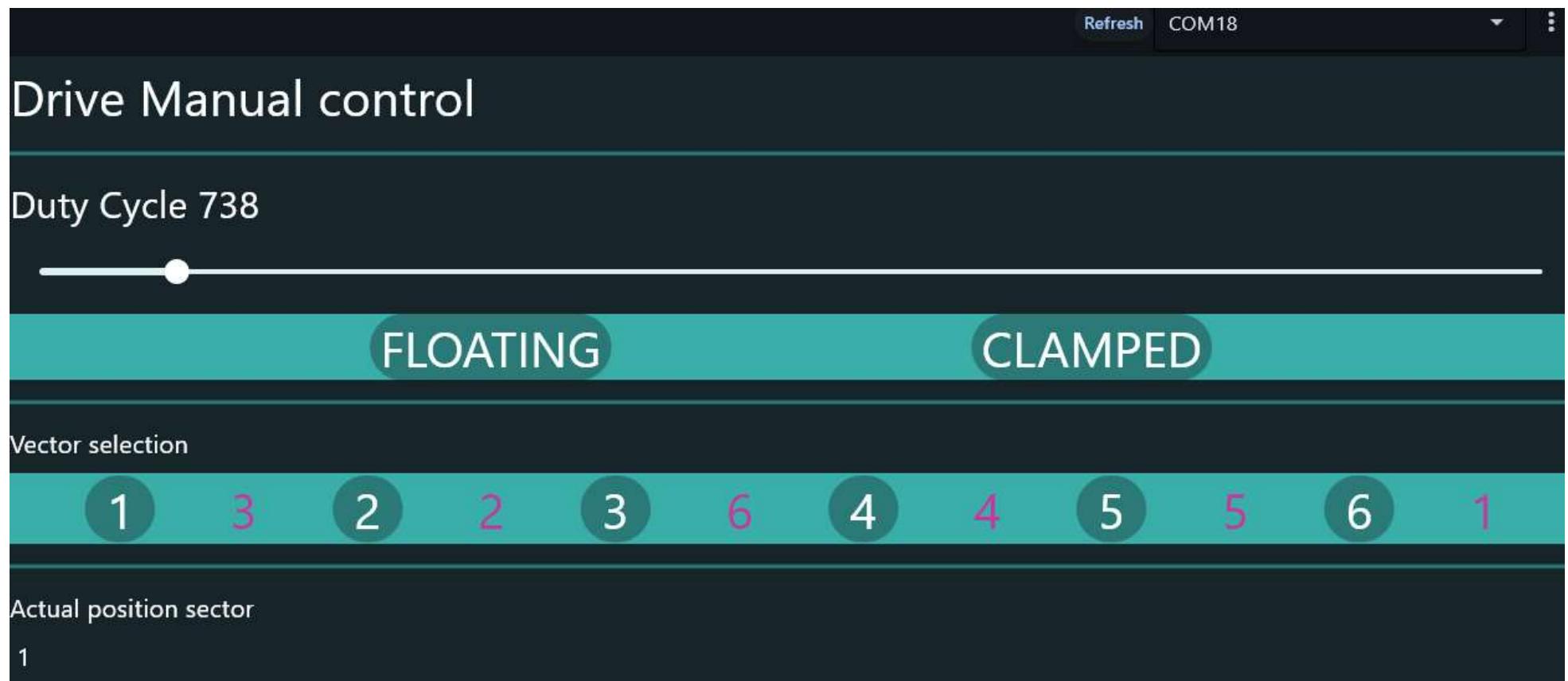
▼ Shared Core Settings

Requested Sampling Time (us)	0.04 ≤ 1 ≤ 20.0
Calculated Sampling Time (us)	1

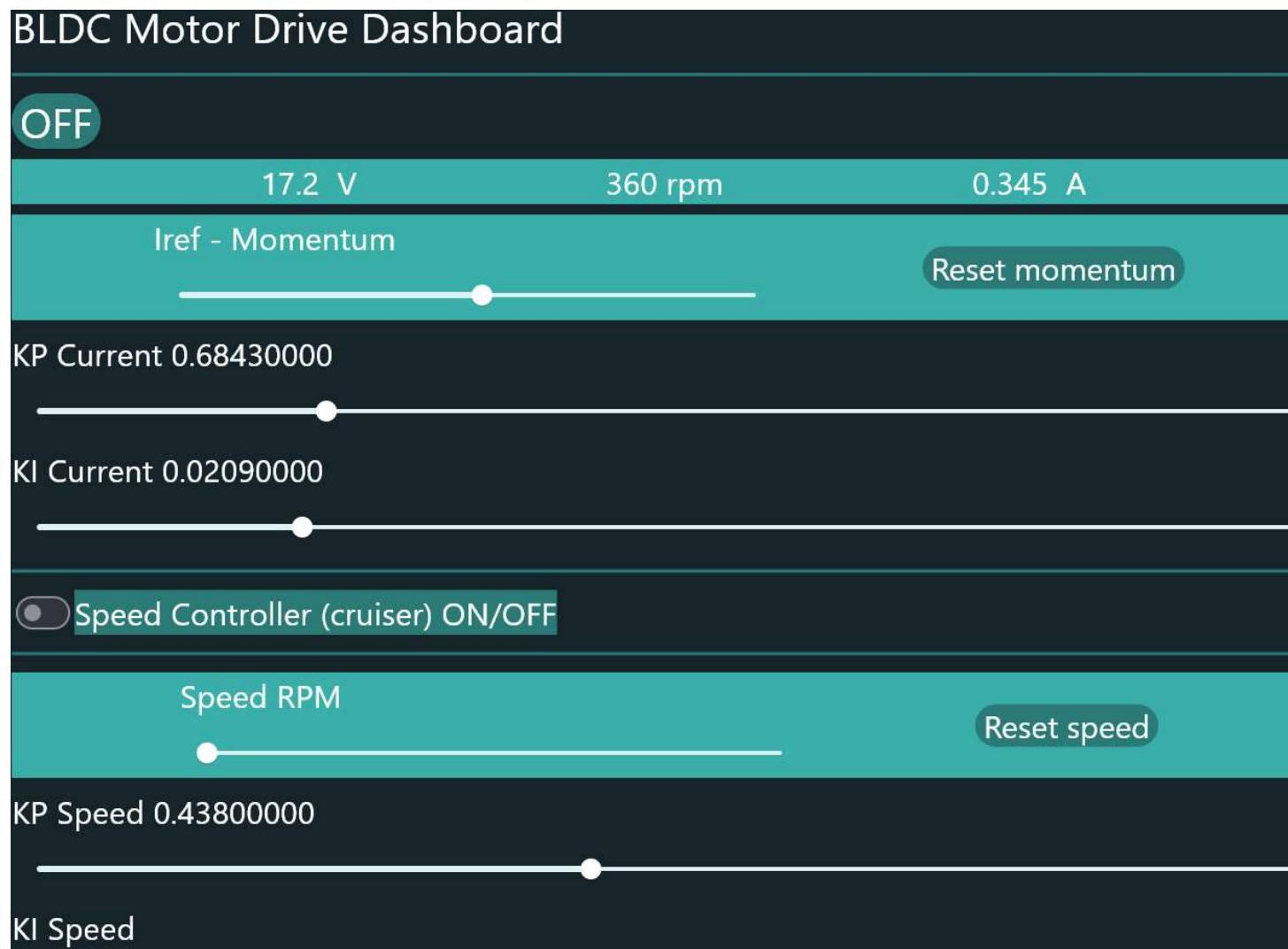
ADC Shared Core Settings

Shared Core Configuration						
Add Comp	Channel	Pins	Enable	Custom Name	Trigger Source	Interrupts
	ANO	RA0	<input checked="" type="checkbox"/>	_I1	PWM Generator1 ADC Trigger1	<input type="checkbox"/>
	AN1	RB2	<input checked="" type="checkbox"/>	_TEMPERATURE	PWM Generator1 ADC Trigger2	<input type="checkbox"/>
	AN2	RB7	<input type="checkbox"/>		None	<input type="checkbox"/>
	AN3	RA3	<input checked="" type="checkbox"/>	_I3	PWM Generator1 ADC Trigger1	<input type="checkbox"/>
	AN4	RA4	<input checked="" type="checkbox"/>	_I2	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
	AN5	RB0	<input type="checkbox"/>		None	<input type="checkbox"/>
	AN6	RB1	<input checked="" type="checkbox"/>	_MOMENTUM	PWM Generator1 ADC Trigger2	<input type="checkbox"/>
	AN7	RB2	<input type="checkbox"/>		None	<input type="checkbox"/>
	AN8	RB3	<input type="checkbox"/>		None	<input type="checkbox"/>
	AN9	RA2	<input type="checkbox"/>		None	<input type="checkbox"/>
	AN10	RB8	<input type="checkbox"/>		None	<input type="checkbox"/>
	AN11	RB9	<input checked="" type="checkbox"/>	_I2_PowerLab	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
	AN12	RC0	<input checked="" type="checkbox"/>	_VLINK	PWM Generator1 ADC Trigger2	<input type="checkbox"/>
	AN13	RC1	<input type="checkbox"/>	_UM3	None	<input type="checkbox"/>
	AN14	RC2	<input type="checkbox"/>	_UM2	None	<input type="checkbox"/>
	AN15	RC3	<input type="checkbox"/>	_UM1	None	<input type="checkbox"/>
	AN16	Internal-Tem	<input type="checkbox"/>	Channel_AN16	None	<input type="checkbox"/>
	AN17	Internal-Ban	<input type="checkbox"/>	Channel_AN17	None	<input type="checkbox"/>

```
21  
22 // #define FLETUINO_APPLICATION_DEMO  
23 // #define FLETUINO_PI_CONTROLLER_SETTINGS  
24 #define FLETUINO_MANUAL_CONTROL  
25  
26
```



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```

Drive Demonstration

Emergency OFF

0

0

0

36.9 V

0 rpm

0.000 A

Momentum-GAS



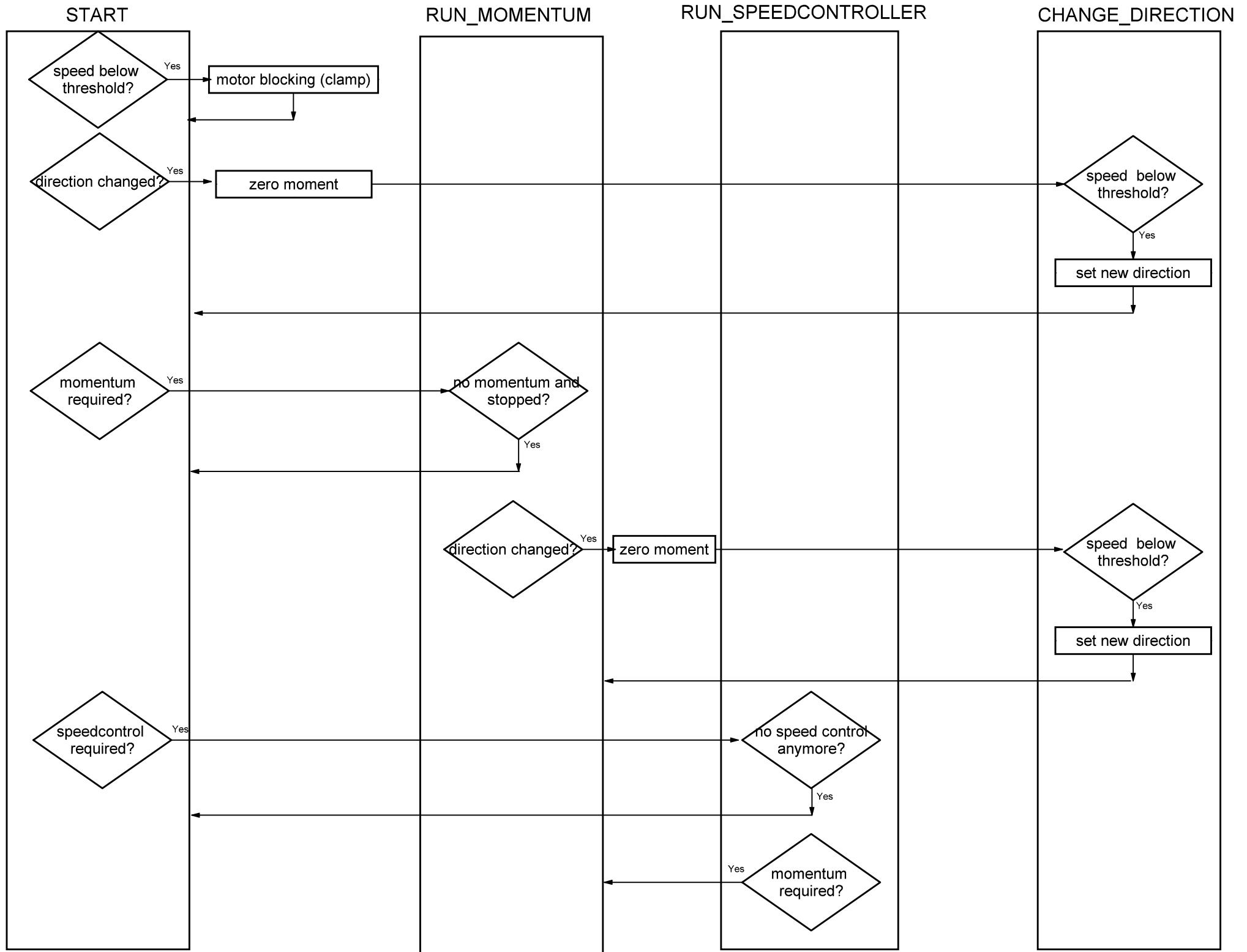
SpeedControl OFF/ON



Forward/Reverse (F/R)

Speed RPM





Shared Core Configuration

Channel	Pins	Enable	Custom Name	Trigger Source	Interrupts
AN0	RA0	<input checked="" type="checkbox"/>	_I1	PWM Generator1 ADC Trigger1	<input type="checkbox"/>
AN1	RB2	<input checked="" type="checkbox"/>	_TEMPERATU	PWM Generator1 ADC Trigger2	<input type="checkbox"/>
AN2	RB7	<input type="checkbox"/>		None	<input type="checkbox"/>
AN3	RA3	<input checked="" type="checkbox"/>	_I3	PWM Generator1 ADC Trigger1	<input type="checkbox"/>
AN4	RA4	<input checked="" type="checkbox"/>	_I2	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
AN5	RB0	<input type="checkbox"/>		None	<input type="checkbox"/>
AN6	RB1	<input checked="" type="checkbox"/>	_MOMENTUI	PWM Generator1 ADC Trigger2	<input type="checkbox"/>
AN7	RB2	<input type="checkbox"/>		None	<input type="checkbox"/>
AN8	RB3	<input type="checkbox"/>		None	<input type="checkbox"/>
AN9	RA2	<input type="checkbox"/>		None	<input type="checkbox"/>
AN10	RB8	<input type="checkbox"/>		None	<input type="checkbox"/>
AN11	RB9	<input checked="" type="checkbox"/>	_I2_PowerLa	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
AN12	RC0	<input checked="" type="checkbox"/>	_VLINK	PWM Generator1 ADC Trigger2	<input type="checkbox"/>
AN13	RC1	<input type="checkbox"/>	_UM3	None	<input type="checkbox"/>
AN14	RC2	<input type="checkbox"/>	_UM2	None	<input type="checkbox"/>
AN15	RC3	<input type="checkbox"/>	_UM1	None	<input type="checkbox"/>

Interrupt ausgelöst, obwohl nicht aktiviert !

Interrupt ausgelöst, obwohl nicht aktiviert !

Interrupt wird nicht ausgelöst! Wie erwartet!!

adc-current-measurement-and-control.c
void ADC_Callback(enum ADC_CHANNEL channel, uint16_t adcVal)

