2/21/2016 Black Box: ADC

ADC

Macros

#define **DEFAULT_SAMPLE_RATE** (500)

Default ADC sample rate, in ms.

Functions

uint32 t getADCSampleRate ()

void **setADCSampleRate** (uint32 t sampleRate)

void taskADCsample (uint32_t ADC_base, uint32_t Sample_Sequencer, uint32_t *ADC_queue)

Detailed Description

ADCman.c - Communications module.

ADCtask.c - ADC module.

Function Documentation

uint32_t getADCSampleRate ()

uint32 t getADCSampleRate()

This method is used to report the current sample rate of the ADC, in ms.

Returns

The current sample rate of the ADC, in ms.

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```
void setADCSampleRate ( uint32_t sampleRate )
```

void setADCSampleRate()

This method is used to set the sample rate of the ADC.

Parameters

sampleRate is the new sample rate of the ADC, in ms.

Returns

None.

void taskADCsample(uint32 t ADC base, uint32 t Sample Sequencer, uint32 t *ADC queue)

Parameters

ADC_base is the base address of the ADC module.

Sample_Sequencer is the sample sequence number.

ADC_queue is the buffer where the ADC conversion data is stored.

This task triggers an ADC conversion and copies data from the specified sample sequencer output FIFO to *ADC_queue* upon completion of the conversion. *ADC_queue* must be set up to accomodate all conversion values in ADC FIFO.

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