

stamp.peripheral.io.ADC

Class LTC1298

[java.lang.Object](#)

```
|
|--stamp.peripheral.io.ADC.AtoD
|
|--stamp.peripheral.io.ADC.LTC1298
```

public class **LTC1298**extends [AtoD](#)

This class encapsulates the capabilities of the 12-bit LTC1298 3-wire A to D.

For more information on this class and the circuit please see Parallax Application Note #008. There are 2 types of setup's this class will handle:

Setup A: Reading the measurement taken directly from:
Channel 0 (CH0) use read(0)
Channel 1 (CH1) use read(1)

Setup B: Read the difference between Channel 0 and Channel 1.
To subtract CH1 from CH0 use read(2)
To subtract CH0 from CH1 use read(3)

Revision History:

Ver 1.0 - 11/29/02: Initial release of class submitted to Parallax Inc.
by customer Tim Constable of Boston, MA
Evaluated and modified by Steve Dill of Parallax Inc.

Field Summary

Fields inherited from class stamp.peripheral.io.ADC.[AtoD](#)[lastRaw](#), [readSize](#), [resolution](#)

Constructor Summary

[LTC1298](#)(int dataPin, int clockPin, int enablePin)

Initialize the LTC1298 A to D Chip and bus.

Method Summary

int	<code>read</code> (int command) Read value from A to D chip.
void	<code>setOffset</code> (int offset) Change offset value.

Methods inherited from class `stamp.peripheral.io.ADC`.[AtoD](#)

[add](#), [calcMV](#), [calcTemp](#), [clear](#), [copy](#), [lastMV](#), [lastRaw](#), [lastVf](#), [multiply](#), [readSmooth](#), [setBitValue](#)

Methods inherited from class `java.lang.Object`

[equals](#)

Constructor Detail

LTC1298

```
public LTC1298(int dataPin,  
               int clockPin,  
               int enablePin)
```

Initialize the LTC1298 A to D Chip and bus.

Method Detail

setOffset

```
public void setOffset(int offset)
```

Change offset value.

This offset is added to each voltage computed from the raw value of the ADC chip. The LTC1298 maximum voltage measured is 4.998. To adjust this to +5.000 V use `setOffset(2)`. This setting can also be useful if you set Vref to 4.5 V. Use this value to fine tune your settings without manipulating the high/low bits.

read

```
public int read(int command)
```

Read value from A to D chip. The LTC1298 chip must be given a command as to which Port it is to read from.

Channel 0 (CH0) use `read(0)`
Channel 1 (CH1) use `read(1)`
To subtract CH1 from CH0 use `read(2)`
To subtract CH0 from CH1 use `read(3)`

Specified by:

[read](#) in class [AtoD](#)

Parameters:

command - 0,1,2,3

Returns:

raw value from chip

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