ADC

Functions in “ADC.c” are designed for ADC.

### *Overview*

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| **Function** | **Note** |
| adc\_PD | This function place ADC into hardware Power-Down mode.  Internal reference need at least 15ms to stabilize after device waken up from Power-Down mode.  Hardware Power-Down reset all program register. |
| adc\_command | This function send a command to ADC and return conversion result specified from last data frame. |
| adc\_CNV | This function return the conversion result of corresponding channel. |
| adc\_CNV\_N | This function return the conversion result of corresponding channel averaged n times. |
| adc\_DSP | This function received channel address data from PC and send back the corresponding channel conversion result. |
| adc\_N\_DSP | This function received channel address data and averaging number from PC.  Send back the averaged corresponding channel conversion result. |
| adc\_W\_DSP | This function received packed data from PC and output to ADC.  (8th MSB = 1 sets a write operation) |
| adc\_R\_DSP | This function received packed data from PC read data from adc register on command and return data to PC. (8th MSB = 0 sets a read operation) |
| adcInit | This function initiate ADC to a known state |