

HUMUSOFT AD612

Synopsis:

`rtload('ad612',slot,opt)`

Parameter Description:

It is highly recommended to use the driver GUI together with `rtscript` to select correct driver parameters. Otherwise a mistake can easily be made.

`slot` specifies PCI slot number. Value of 65535 means auto-detect the board, i.e. the board can be in any slot.

`opt` is a vector of hardware specific options.

`opt(1)` specifies digital I/O options. It is bit-oriented and therefore shows as a sum of numbers corresponding to individual bit weights. These numbers are summarized in the table below.

<i>Parameter</i>	<i>Option</i>	<i>Value</i>
digital input mode	bit	0
	byte	1
digital output mode	bit	0
	byte	2

`opt(2)` to `opt(9)` specify analog input ranges for channels 1 to 8. The input ranges are coded by numbers listed in the table below.

When using GUI to specify channel gains, the columns correspond to channels and the rows correspond to

<i>Range</i>	<i>Code</i>
0...5V	0
±5V	1
0...10V	2
±10V	3

gain values. Select a gain for a single channel by clicking the radio button at the appropriate position. Select a gain for all the channels at once by clicking the push button labeled by the gain value, left to the corresponding row of the radio button array.

Both slot and opt are optional. The defaults are:

slot: 65535

opt (1): [0].

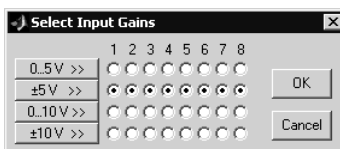
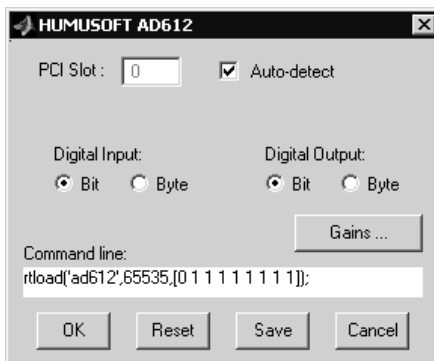
Also the channel gains are optional and defaults are 1 (range $\pm 5V$).

Channel Assignment:

Both input and output hardware channels are assigned to channel numbers starting with analog channels, then following with digital channels. This is summarized in the table below.

<i>HUMUSOFT AD612</i>	<i>Real Time Toolbox</i>
AD0 .. AD7	Inputs 1 . . 8
DIN0 .. DIN7	Inputs 9 . . 16 in bit mode Input 9 in byte mode
DA0 .. DA3	Outputs 1 . . 4
DOUT0 .. DOUT7	Outputs 5 . . 12 in bit mode Output 5 in byte mode

GUI Window:



Input Scan:

Input scan is not supported for any input channel.

Output Waveform:

Waveform generation is not supported for any output channel.

Switch and Jumper Settings:

There are no switches or jumpers. The board settings are determined entirely by the driver options.