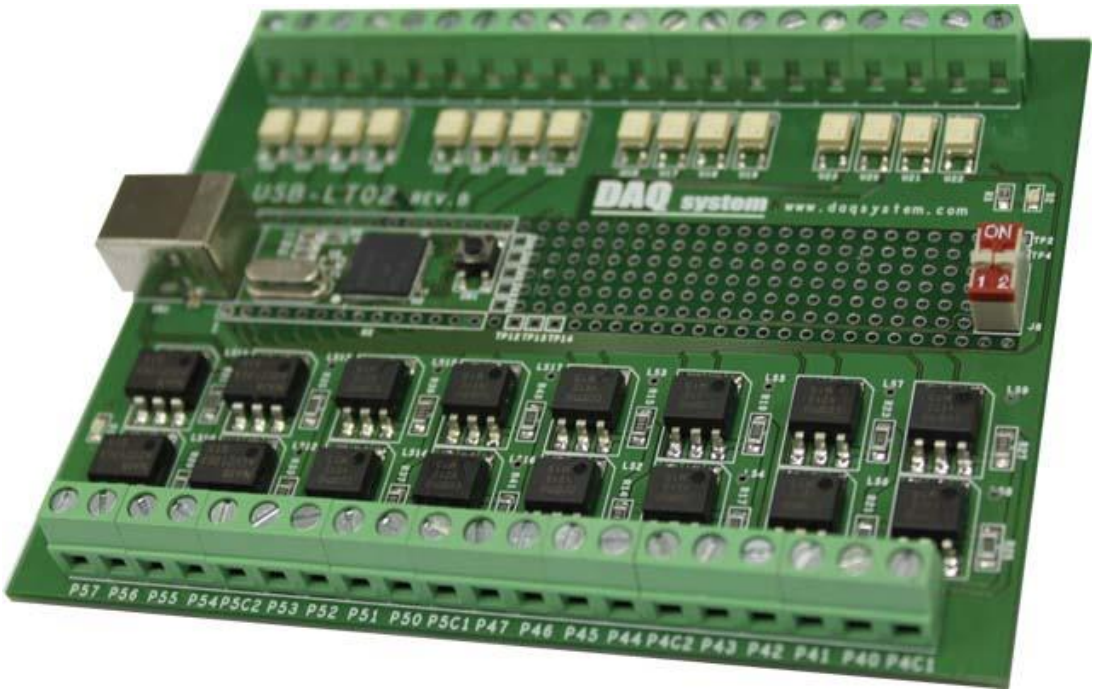
USB-LT02_B

API Manual

Version 1.3



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Board Level API Functions

Overview

Int **InitBoard (void))**

InitBoard

This function returns the number of recognized devices.

int **InitBoard (void)**

Parameters:

Return Value:

Number of recognized devices.

Port API Functions

Overview

int **PortConfigure (WORD P4, WORD P5, WORD P6, WORD P7, WORD P1)**

int **PortRead (BYTE *P4, BYTE *P5, BYTE *P6, BYTE *P7, BYTE *P1)**

int **PortWrite (BYTE P4, BYTE P5, BYTE P6, BYTE P7)**

int **Port1Write (BYTE act, BYTE pos)**

int **PortConfigureEx (int nDevice, WORD P4, WORD P5, WORD P6, WORD P7, WORD P1)**

Int **PortReadEx (int nDevice, BYTE *P4, BYTE *P5, BYTE *P6, BYTE *P7, BYTE *P1)**

Int **PortWriteEx (int nDevice, BYTE P4, BYTE P5, BYTE P6, BYTE P7)**

int **Port1WriteEx (int nDevice, BYTE act, BYTE pos)**

PortConfigure

This function decides whether to use each port as input or output.

int **PortConfigure (WORD P4, WORD P5, WORD P6, WORD P7, WORD P1)**

Parameters:

P4: Delivers 16-bit values of upper Port 5 (7..0) and lower Port 4 (7..0).

P5 : Higher Port 1 (7..2), P7 (1..0) and lower Port 6 (7..0) 16-bit values are transmitted.

P6, P7, P1 : Not used.

Return Value:

If initialization fails, "0" is returned. If successful, "1" is returned.

PortRead

This function returns the current input state of each port.

int **PortRead (BYTE *P4, BYTE *P5, BYTE *P6, BYTE *P7, BYTE *P1)**

Parameters:

Pointer that can receive the value of each port (*P4, *P5, *P6, *P7, *P1)

Return Value:

If the read fails, "0" is returned. In the case of success, "1" is returned.

PortWrite

This function outputs each port as a specified value (except for port 1)

int **PortWrite (BYTE P4, BYTE P5, BYTE P6, BYTE P7)**

Parameters:

Port value to be output (P4, P5, P6, P7)

Return Value:

If writing fails, "0" is returned. In case of success, "1" is returned.

Port1Write

This function outputs each bit of port 1 as a specified value. Port 1's 0 and 1 are used as USB data lines, so the entire value cannot be written, and each bit (except bits 0 and 1) must be written separately.

int **Port1Write (BYTE act, BYTE pos)**

Parameters:

act : If it is '0', '0' is recorded, and if it is not '0', '1' is recorded.

pos : indicates the bit position (bit positions 2 to 7). The rest of the values are meaningless.

Return Value:

If the command fails, "0" is returned. In case of success, "1" is returned.

PortConfigureEx

This function decides whether to use each port as input or output. (For Multi-board)

int **PortConfigureEx (int nDevice, WORD P4, WORD P5, WORD P6, WORD P7, WORD P1)**

Parameters:

nDevice : Number of USB-LT02 devices detected

P4: Delivers 16-bit values of upper Port 5 (7..0) and lower Port 4 (7..0).

P5 : Higher Port 1 (7..2), P7 (1..0) and lower Port 6 (7..0) 16-bit values are transmitted.

P6, P7, P1 : Not used.

Return Value:

If initialization fails, "0" is returned. If successful, "1" is returned.

PortReadEx

This function returns the current input state of each port. (For Multi-board)

int **PortReadEx (int nDevice, BYTE *P4, BYTE *P5, BYTE *P6, BYTE *P7, BYTE *P1)**

Parameters:

nDevice : Number of USB-LT02 devices detected

*P4, *P5, *P6, *P7, *P1 : A pointer to the value of each port.

Return Value:

If the read fails, "0" is returned. In the case of success, "1" is returned.

PortWriteEx

This function outputs each port as a specified value (except for port 1). (For Multi-board)

int PortWriteEx (int nDevice, BYTE P4, BYTE P5, BYTE P6, BYTE P7)

Parameters:

nDevice : Number of USB-LT02 devices detected

P4, P5, P6, P7 : The value of the port to output.

Return Value:

If writing fails, "0" is returned. In case of success, "1" is returned.

Port1WriteEx

This function outputs each bit of port 1 as a specified value. Port 1's 0 and 1 are used as USB data lines, so the entire value cannot be written, and each bit (except bits 0 and 1) must be written separately. (For Multi-board)

int Port1WriteEx (int nDevice, BYTE act, BYTE pos)

Parameters:

nDevice : Number of USB-LT02 devices detected

act : If it is '0', '0' is recorded, and if it is not '0', '1' is recorded.

pos : indicates the bit position (bit positions 2 to 7). The rest of the values are meaningless.

Return Value:

If the command fails, "0" is returned. In case of success, "1" is returned.

Memo

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