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KYT – 2912 DLL Manual

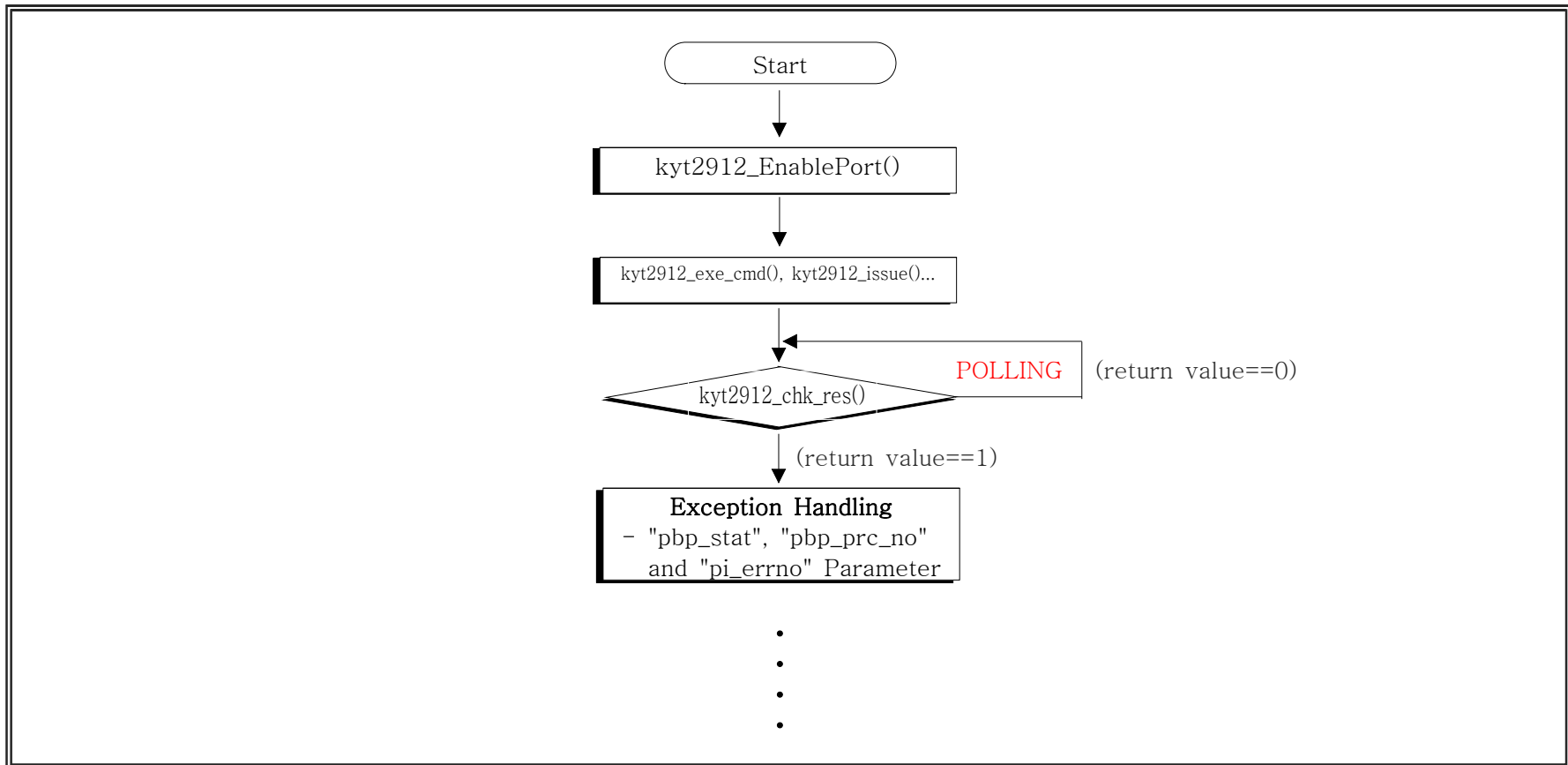
REVISION HISTORY

CHECK	DATE	DESCRIPTION	REV	PAGE
1	2006.5.18	First edition	1.00	11
2	2006.8.16	Added the kyt2912_mot_op() and kyt2912_sol_op() function.	1.01	11
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\$. "kyt_2912.dll" Library

- Library for Windows NT4.0/2000/XP and Windows 98/Millennium.
- Notice: BYTE==unsigned char, UINT==unsigned int.



- Flow Chart -

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@. kyt2912_EnablePort()

- Set the serial port to communicate with the terminal.

* PROTOTYPE

- BOOL kyt2912_EnablePort(char* port, BYTE size, BYTE parity, BYTE stopbit, DWORD baudrate, BYTE control);

* PARAMETERS(Refer to "struct _DCB" in the MSDN.)

- port : ex) "COM1", "COM2", ...
- size : Number of bits/byte, 4~8.
- parity : 0~4=None,Odd,Even,Mark,Space.
- stopbit : 0,1,2 = 1, 1.5, 2.
- baudrate : Baud rate at which running.
- control : 0,1,2,3 = None, XOn/XOff, RTS/CTS, Both.

* RETURN

- Normal: 1
- Error : 0

* REMARKS

- e.g) kyt2912_EnablePort("COM1", 8, 0, 0, 19200, 0);
- =====

@. kyt2912_DisablePort()

- Close the serial port to communicate with the terminal.

* PROTOTYPE

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- BOOL kyt2912_DisablePort();

* PARAMETERS : void

* RETURN :

- Normal: 1

- Error : 0

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@. kyt2912_exe_cmd()

- Transmit the command at the terminal.

* PROTOTYPE

- int kyt2912_exe_cmd(BYTE* pbp_cmd);

* PARAMETERS : Refer to the spec.

- pb_cmd: The buffer pointer filled with the command code(2Byte)

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

* REMARKS

- It retry 3 time to the automatic when a communication obstacle happens.

- This function can execute all command that is written on the Spec.

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@. kyt2912_chk_res()

- Check finishing the execution about the request command. And read the result values about the request command.

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* PROTOTYPE

- int kyt2912_chk_res(unsigned char *pbp_stat, unsigned char * pbp_prc_no, int *pi_errno);

* PARAMETERS

- pbp_stat: The Pointer of the buffer to take the status value(8BYTE) of the terminal.
 - . If the command is "0x60"(Indicate Firmware Version) : Firmware Version information
 - . Other command : Status value of the terminal.(Refer to the spec)
- pbp_prc_no: The variable for save the sequence number of the request command to process.(1 byte)
- pi_errno
 - . Normal: 0
 - . Error : Other.(Refer to the Error Code List.)

* RETURN

- 0: Don't finish the processing.
- 1: Finish the processing.

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@. kyt2912_exe_stop()

- Stop process about request command.

* PROTOTYPE

- void kyt2912_exe_stop()

* PARAMETERS : void

* RETURN : void

* REMARKS

- If you must stop the execution because of the time is delayed.
Call exe_stop() function.

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@. kyt2912_call_src_ver()

- Display source version of the dll program in the Message Box.

* PROTOTYPE

- void kyt2912_call_src_ver()

* PARAMETERS : void

* RETURN : void

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@. kyt2912_clr()

- Error Clear.

* PROTOTYPE

- int kyt2912_clr();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.
 - 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)
- =====

@. kyt2912_rqt()

- Status Request.

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* PROTOTYPE

- int kyt2912_rqt();

* PARAMETERS : void

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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@. kyt2912_issue()

- Issue the card.

* PROTOTYPE

- int kyt2912_issue(BYTE pb_pm);

* PARAMETERS

- pb_pm: Unit number(1~8).

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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@. kyt2912_mot_op()

- Rotate the motor in the reverse direction for 0.5 second.

* PROTOTYPE

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- int kyt2912_mot_op(BYTE pb_pm);

* PARAMETERS

- pb_pm: Unit number(1~8).

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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@. kyt2912_sol_op()

- Open the shutter for 0.5 second. And then close the shutter.

* PROTOTYPE

- int kyt2912_sol_op(BYTE pb_pm);

* PARAMETERS

- pb_pm: Unit number(1~8).

* RETURN

- 0 : Parameter Error.

- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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@. kyt2912_baudrate()

- Set the Baud rate.

* PROTOTYPE

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- int kyt2912_baudrate(BYTE pb_pm);

* PARAMETERS

- pb_pm==1: 19200 BPS (Default)
- pb_pm==2: 38400 BPS

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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@. kyt2912_fw_version()

- Check the Firmware Version.

* PROTOTYPE

- int kyt2912_fw_version();

* PARAMETERS: void

* RETURN

- 0 : Parameter Error.
- 1 ~ 255: The Sequence number about that request(It is utilized to confirm whether it is the result about request when you read the result.)

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%. Notice(Refer to the spec)

- All command send "Status Request Command" to the automatic for busy flag inspection.(Except kyt26xx_set_baudrate() Function)

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\$. Error Code List

1	: No ACK Error
2	: TIMEOUT Error
3	: Negative Data error
102	: Force termination error
106	: Received data frame error
107	: Received data BCC error
108	: Data Transmission error

\$. Implement the Manager Program.

1.Open and set the serial port by call kyt2912_EnablePort() function in“kyt_2912.dll”.

2.Call kyt2912_rqt(), kyt2912_issue(),... function according to the deed to do.

The Returned value(pbp_prc_no) in an each function (kyt2912_exe_cmd(), kyt2912_issue() ...) is the sequence number about that request command.

It is utilized to confirm whether it is the result about the request when you read the result of the request command.

3. For confirm the result about the request. First you check finishing the execution

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about the request by kyt2912_chk_res() function. if that finished the execution. Process the result values.

4.If you must stop the execution because of the time is delayed. Call kyt2912_exe_stop() function.

5.Call kyt2912_DisablePort() function if you close the serial port.

6. If you changes the setup of the serial port. call kyt2912_EnablePort() function again.

But you must call kyt2912_DisablePort() function for close the existing serial port before call kyt2912_EnablePort() function.