



PROTECH SYSTEMS
its the right choice



USER *GUIDE*



Protech API Package

IO Description

Copyright © 2009 Protech Systems Corp.

Manual 1st edition September 2009

www.protech.com.tw

PPC-752X(7528F,7520F,7520) Digital I/O Hardware

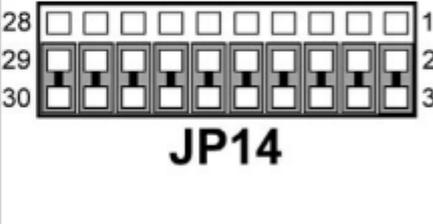
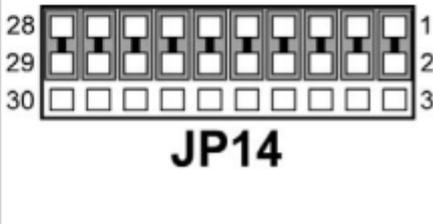
Before use the Digital I/O function

Must first make the following settings.

DIGITAL I/O AND PRINTER SELECTION

JP14: Brightness Voltage Selection

The selections are as follows :

SELECTION	JUMPER SETTING (Pin Closed)	JUMPER ILLUSTRATION
Printer (default)	2-3 5-6 8-9 11-12 14-15 17-18 20-21 23-24 26-27 29-30	
DIO	1-2 4-5 7-8 10-11 13-14 16-17 19-20 22-23 25-26 28-29	

Printer Connector.

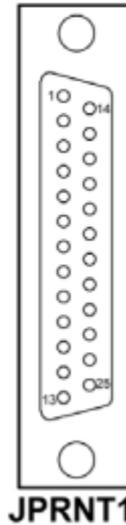
PRINTER CONNECTOR

JPRNT1 : Printer Connector

As to link the Printer to the card, you need a cable to connect both DB25 connector and parallel port.

The pin assignments are as follows :

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	STROBE	14	AFDJ
2	PPD0	15	ERRORJ
3	PPD1	16	INITJ
4	PPD2	17	SLINJ
5	PPD3	18	GND
6	PPD4	19	GND
7	PPD5	20	GND
8	PPD6	21	GND
9	PPD7	22	GND
10	ACKJ	23	GND
11	BUSY	24	GND
12	PE	25	GND
13	SLCT		



GPIO Pin for ICH6	Printer Assignment	Digital Assignment	IO Address	IO Control bit
GPI07	STROBE	DIN_R0	0x42A	Bit7
GPI08	PPD0	DIN_R1	0x42B	Bit0
GPI12	PPD2	DIN_R2	0x42B	Bit4
GPI34	PPD3	DIN_R3	0x4B8	Bit2
GPO19	PPD7	DOUT_0	0x48E	Bit3
GPO21	ACKJ	DOUT_1	0x48E	Bit5
GPO23	BUSY	DOUT_2	0x48E	Bit7
GPO25	PE	DOUT_3	0x48F	Bit5

Initial Code:

```
Out32(0x404,0xFF00 & Inp32(0x404));
Out32(0x4B4,0x0004 | Inp32(0x4B4));
```

Base on 752x hardware, the in/out pins of digital I/O will reverse the value it receives.

For example,

If user send a value 0x0F to the DOUT pins.

0x0F -> 00001111

The result of output pins from DOUT3 to DOUT0 will be 0000

And Din pins are Low Enable.

Example, Din_ R0~Din_ R1 default is High logic status.

If Din R0 Receive 0V(GND) register is set "1"

Din R0 receive 5v (VCC) Register is set "0"

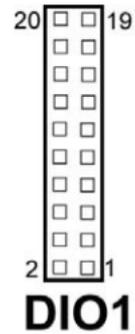
811LF Digital I/O Hardware

DIGITAL INPUT/OUTPUT CONNECTOR

DIO1 : Digital I/O Connector

The pin assignments are as follows :

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	VCC	2	GND
3	DIN0	4	DOUT0
5	DIN1	6	DOUT1
7	DIN2	8	DOUT2
9	DIN3	10	DOUT3
11	DIN4	12	DOUT4
13	DIN5	14	DOUT5
15	DIN6	16	DOUT6
17	DIN7	18	DOUT7
19	GND	20	GND



PROX-S8101LF Digital I/O Hardware

DIGITAL INPUT/OUTPUT CONNECTOR

DIO1 : Digital I/O Connector

The pin assignments are as follows :

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	GPIO30	2	GPIO31
3	GPIO32	4	GPIO33
5	GND	6	VCC
7	GPIO13	8	GPIO16
9	GPIO17	10	GPIO20

Bit7(IO7)	Bit6(IO6)	Bit5(IO5)	Bit4(IO4)	Bit3(IO3)	Bit2(IO2)	Bit1(IO1)	Bit0(IO0)
PIN10	PIN9	PIN8	PIN7	PIN4	PIN3	PIN2	PIN1