

LW-M104-I128 R2 (DX) Quick Start Guide

Connectors List

Ref.	Description	Pitch
J1	PC/104 Expansion Connector	0.1 In
J2	Power Connector (Optional)	0.1 In
P_I1/I2/I3/I4	Digital Input Port Connectors	0.1 In
P_O1/O2/O3/O4	Digital Output Port Connectors	0.1 In

Digital I/O Address Map

Address	Read	Write
Base	P1 Channel A Input	P5 Channel A Output
Base + 1	P1 Channel B Input	P5 Channel B Output
Base + 2	P2 Channel A Input	P6 Channel A Output
Base + 3	P2 Channel B Input	P6 Channel B Output
Base + 4	P3 Channel A Input	P7 Channel A Output
Base + 5	P3 Channel B Input	P7 Channel B Output
Base + 6	P4 Channel A Input	P8 Channel A Output
Base + 7	P4 Channel B Input	P8 Channel B Output
Base + 8	[3:0]: IRQ for P1 [7:4]: IRQ for P2	[3:0]: IRQ for P1 (0: Disable) [7:4]: IRQ for P2 (0: Disable)
Base + 9	[3:0]: IRQ for P3 [7:4]: IRQ for P4	[3:0]: IRQ for P3 (0: Disable) [7:4]: IRQ for P4 (0: Disable)
Base + 10	Base Address (Low Byte)	Base Address (Low Byte) *
Base + 11	Base Address (High Byte)	Base Address (High Byte) *
Base + 14	[0]=1: Output is Enabled [0]=0: Output is Disabled	0xFF: Output Port Enable Others: Hi-Impedence Output Port
Base + 15	N/A	0xFF: Set All Output to "1" 0x00: Clear All Output to "0"

* Important:
 Must write the 2-Byte Base Address in Sequence, Low Byte first, then High Byte.

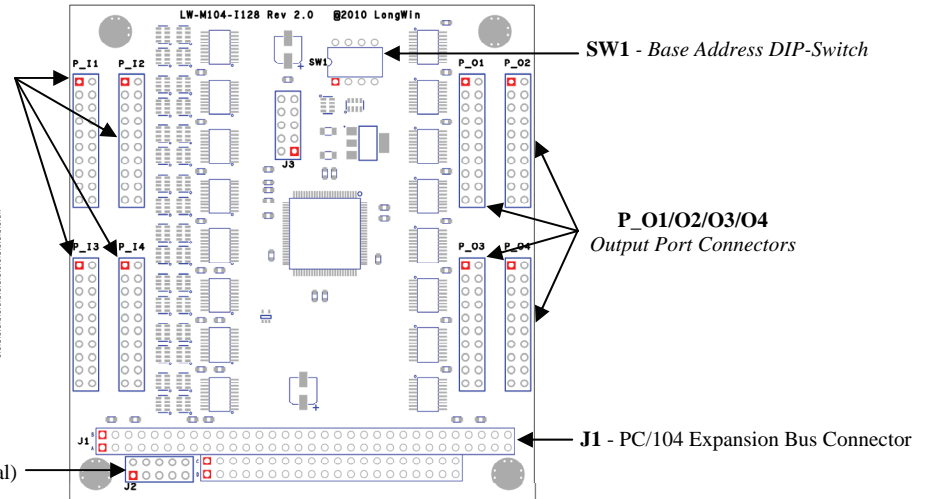
J2 - Power Connector

Signal	Pin	Pin	Signal
Ground	1	2	Key
Ground	3	4	+5V
Ground	5	6	+5V
Ground	7	8	+5V
Ground	9	10	+5V

P_I1/I2/I3/I4
 Input Port Connectors

Note:
 Pin 1 (Red Color) of connector is identified by square pad.

J2 - Power Connector (Optional)



SW1 - Power-Up Base Address

4	3	2	1 **	Base Address
OFF	OFF	OFF	OFF	0x100
OFF	OFF	OFF	ON	0x180 **
OFF	OFF	ON	OFF	0x200
OFF	OFF	ON	ON	0x220 **
OFF	ON	OFF	OFF	0x280
OFF	ON	OFF	ON	0x2C0 **
OFF	ON	ON	OFF	0x300 (Default)
OFF	ON	ON	ON	0x310 **
ON	OFF	OFF	OFF	0x320
ON	OFF	OFF	ON	0x600 **
ON	OFF	ON	OFF	0x800
ON	OFF	ON	ON	0xC00 **
ON	ON	OFF	OFF	0x1500
ON	ON	OFF	ON	0x1800 **
ON	ON	ON	OFF	0x3200
ON	ON	ON	ON	0x3800 **

** :
 For DX version, SW1-1 is used for power-off setting restore.
 When it is set to "ON", the module will automatically restore/overwrite Base Address and Interrupts with last settings after power-on.

P1/2/3/4 - Digital Input Connectors

Signal	Pin	Pin	Signal
+5V	1	2	+5V
D7 (Channel B)	3	4	D6 (Channel B)
D5 (Channel B)	5	6	D4 (Channel B)
D3 (Channel B)	7	8	D2 (Channel B)
D1 (Channel B)	9	10	D0 (Channel B)
D7 (Channel A)	11	12	D6 (Channel A)
D5 (Channel A)	13	14	D4 (Channel A)
D3 (Channel A)	15	16	D2 (Channel A)
D1 (Channel A)	17	18	D0 (Channel A)
Ground	19	20	Ground

P5/6/7/8 - Digital Output Connectors

Signal	Pin	Pin	Signal
Ground	1	2	Ground
D0 (Channel A)	3	4	D1 (Channel A)
D2 (Channel A)	5	6	D3 (Channel A)
D4 (Channel A)	7	8	D5 (Channel A)
D6 (Channel A)	9	10	D6 (Channel A)
D0 (Channel B)	11	12	D1 (Channel B)
D2 (Channel B)	13	14	D3 (Channel B)
D4 (Channel B)	15	16	D5 (Channel B)
D6 (Channel B)	17	18	D7 (Channel B)
+5V	19	20	+5V