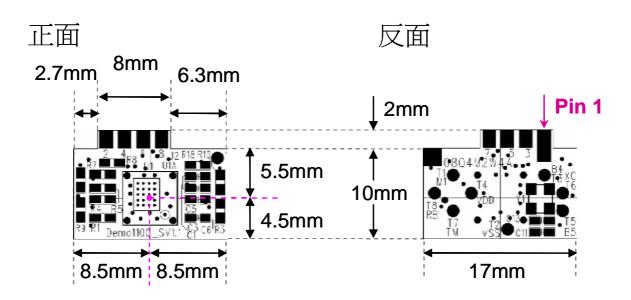
MM0200BA Sensor Module

產品規格書

版本 V1.0

技術規格

1. PCB尺寸圖:

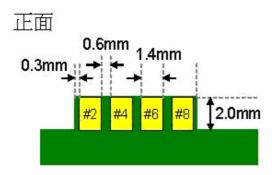


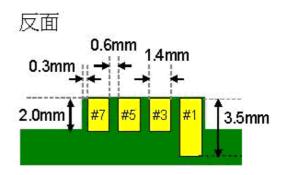
註: 以上尺寸誤差值皆為 ± 0.1mm

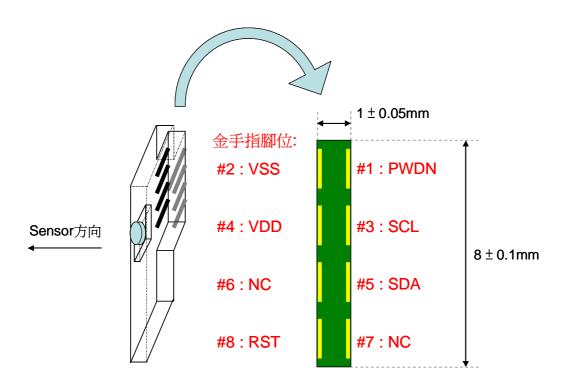
2. 溝通介面:

2.1 硬體:

◎ 8 pin 金手指







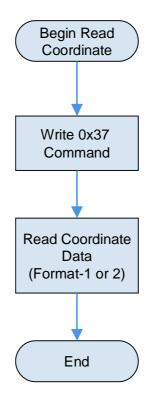
O Pin Description :

MM0200BA is defined as a I2C slave device.

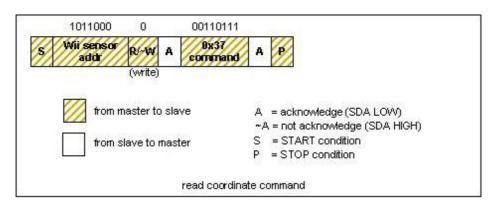
Pin No.	Name	Туре	Attribute	Pin Description
1	PWDN	I		Power down mode enable, active- high
2	VSS	GND		Ground
3	SCL	I		Serial clock of I2C interface
4	VDD	Power		DC 3.3V Power
5	SDA	I/O		Serial data of I2C interface
6	NC			No connection, keep floating
7	NC			No connection, keep floating
8	RST	I	Pull up	External reset input, active-low

2.2 軟體: I2C介面

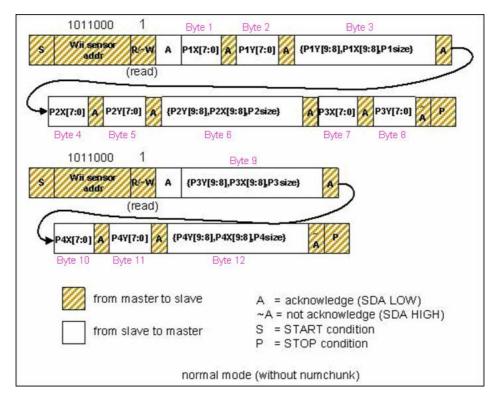
O Host Read Coordinate Procedure



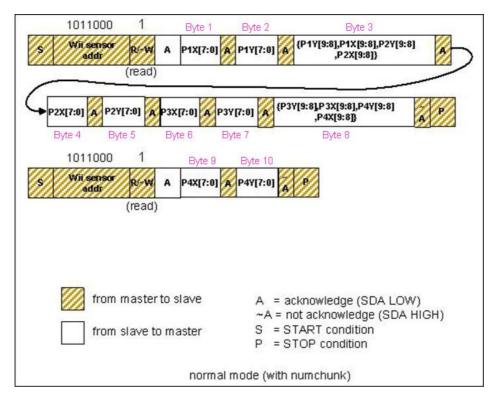
n Write Read-Coordinate Command Sequence



n Read Data Format-1 Sequence (without Numchunk)



n Read Data Format-2 Sequence (with Numchunk)



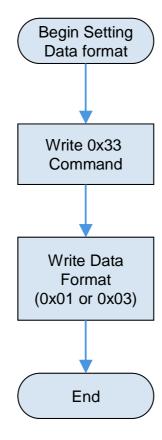
n Spot Data Format without Numchunk

光點 (排序由大至小)	資料內容	資料合成	資料長度 (Bits)
	X座標	{ Byte 3[5:4], Byte 1[7:0]}	10
Spot-1 (最大光點)	Y座標	{ Byte 3[7:6] , Byte 2[7:0] }	10
() () () ()	光點尺寸	Byte 3[3:0]	4
	X座標	{ Byte 6[5:4], Byte 4[7:0]}	10
Spot-2	Y座標	{ Byte 6[7:6] , Byte 5[7:0] }	10
	光點尺寸	Byte 6[3:0]	4
	X座標	{ Byte 9[5:4] , Byte 7[7:0] }	10
Spot-3	Y座標	{ Byte 9[7:6] , Byte 8[7:0] }	10
	光點尺寸	Byte 9[3:0]	4
	X座標	{ Byte 12[5:4] , Byte 10[7:0] }	10
Spot-4	Y座標	{ Byte 12[7:6] , Byte 11[7:0] }	10
	光點尺寸	Byte 12[3:0]	4

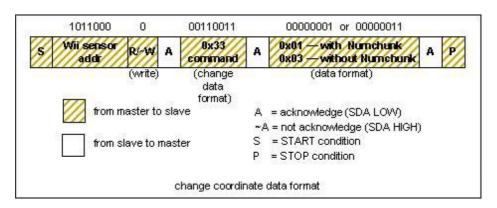
n Spot Data Format with Numchunk

光點 (排序由大至小)	資料內容	資料合成	資料長度 (Bits)
Spot-1	X座標	{ Byte 3[5:4], Byte 1[7:0] }	10
(最大光點)	Y座標	{ Byte 3[7:6], Byte 2[7:0]}	10
Snot 2	X座標	{ Byte 3[1:0], Byte 4[7:0] }	10
Spot-2	Y座標	{ Byte 3[3:2], Byte 5[7:0] }	10
Spot-3	X座標	{ Byte 8[5:4], Byte 6[7:0] }	10
Spot-3	Y座標	{ Byte 8[7:6], Byte 7[7:0] }	10
Spot-4	X座標	{ Byte 8[1:0], Byte 9[7:0] }	10
Sp0t-4	Y座標	{ Byte 8[3:2], Byte 10[7:0] }	10

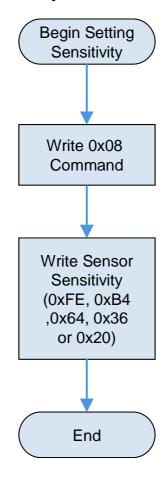
O Setting Coordinate Data Format Procedure



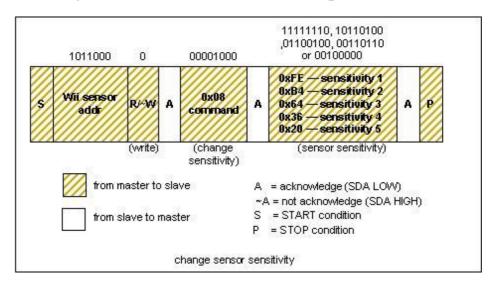
n Setting Coordinate Data Format Sequence



O Setting Sensor Sensitivity Procedure



n Setting Coordinate Data Format Sequence



3. 電氣規格:

● 工作電壓: 3.3 ±0.3V DC

● 工作電流: 28 mA (Normal)

35 uA (Power down)

● 工作距離: 60 cm ~ 6.6 m (視光源強度變化)

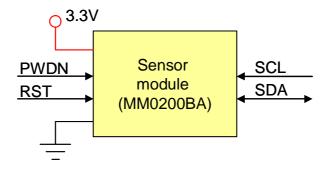
● 解析度: 1024 x 768 pixels (模擬)

● Sensor可視角度:40°(水平)

30°(垂直)

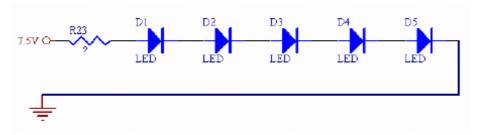
4. 應用電路:

4.1 模組應用電路

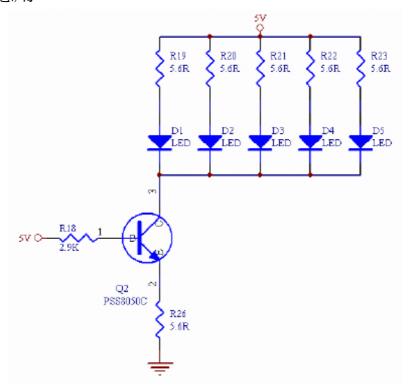


4.2 IR應用電路

◎ 應用1



◎ 應用2



5. 版次歷史:

● V1.0: (2009.02.13)