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RoBoard Module RM-G201

Manual V1.01

The Heart of Robotics

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DMP Electronics Inc

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Chapter 1

Introduction

1.1 Packing List

Product Name	Package
RM-G201	RoBoard Module RM-G201
	
Cable-RM-1	1x6 pin Cable x 1
	

1.2 Product Description

The RoBoard Module RM-G201 is a reflectance-based infrared proximity and ambient light sensor. This device includes an integrated high-sensitivity photodiode, digital converter, digital signal processor, and three integrated infrared LED drivers with selectable drive levels. The RM-G201 offers excellent performance under a wide dynamic range of light sources including direct sunlight. The three infrared LED driver device is capable of supporting advanced infrared proximity motion detection, simply and all done through I2C interface, the dimension of it is wee as 20 x 20 mm.

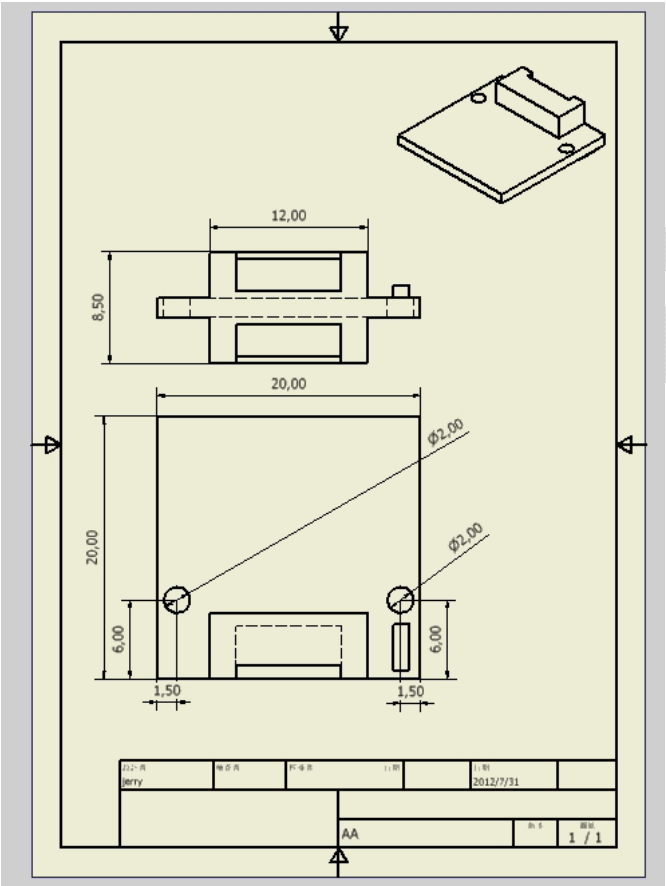
1.3 Specifications

	RM-G201 Proximity/Ambient light sensor module
Proximity/Ambient light sensor	Si1143
Interface	I^2C
Default Address	Write : 0x5A
	Read : 0x5B
Connectors	1.25mm 6-pin wafer for I^2C x 2
Power Input	DC-in 5V
Dimension	20mm X 20mm
Weight	2.5g

1.4 I²C Address

- Default Write : 0x5A
- Default Read : 0x5B

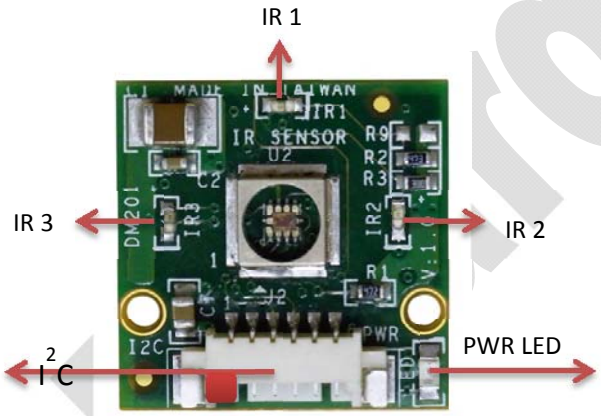
1.5 Board Dimension



Chapter 2

Installation

2.1 Board Outline



2.2 Connectors & Jumpers Summary

Summary Table

	Description	Type of Connections	Pin
J1	I²C connector (Top)	Wafer, 2.54mm,6x1	6-pin
J2	I²C connector (Bottom)	Wafer, 2.54mm,6x1	6-pin

2.3 Pin Assignments

J1: I²C connector (Top)

Pin #	Signal Name
1	Vcc (Red)
2	GND (Black)
3	SCL (Blue)
4	SDA (Green)
5	X (White)
6	X (Orange)

J2: I²C connector (Bottom)

Pin #	Signal Name
1	Vcc (Red)
2	GND (Black)
3	SCL (Blue)
4	SDA (Green)
5	X (White)
6	X (Orange)

Chapter 3

Development Note

Sample and development code

The RM-G201 provides sample and development code.
Please download from official website: http://www.roboard.com

Warranty

This product is warranted to be in good working order for a period of one year from the date of purchase. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it at no additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster. Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, originality to use this product. Vendor will not be liable for any claim made by any other related party. Return authorization must be obtained from the vendor before returned merchandise will be accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description.