



DMP

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RoBoard Module RM-G211

Manual V1.01

The Heart of Robotics

Nov 2012

DMP Electronics Inc

ROBoard

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Chapter 1

Introduction

1.1 Packing List

Product Name	Package
RM-G211	RoBoard Module RM-G211
 A photograph of the RoBoard Module RM-G211, a green printed circuit board (PCB) with various electronic components. It features a white multi-pin connector on the left, a black 1x6 pin header on the right, and two gold-plated through-hole pins at the top. The board is populated with several integrated circuits, resistors, and capacitors. A large, semi-transparent watermark reading 'RoBoard' is overlaid diagonally across the image.	
Cable-RM-1	1x6 pin Cable x 1
 A photograph of a 1x6 pin cable, consisting of a black plastic connector on the left and a 6-pin header on the right, connected by a bundle of six thin, colored wires. The cable is coiled and set against a light green background. A large, semi-transparent watermark reading 'RoBoard' is overlaid diagonally across the image.	

1.2 Product Description

The RoBoard Module RM-G211 is an 8 channel 12 bit Analog to Digital module (AD7998), simply and all done through I2C interface, the dimension of it is wee as 20 x 20 mm.

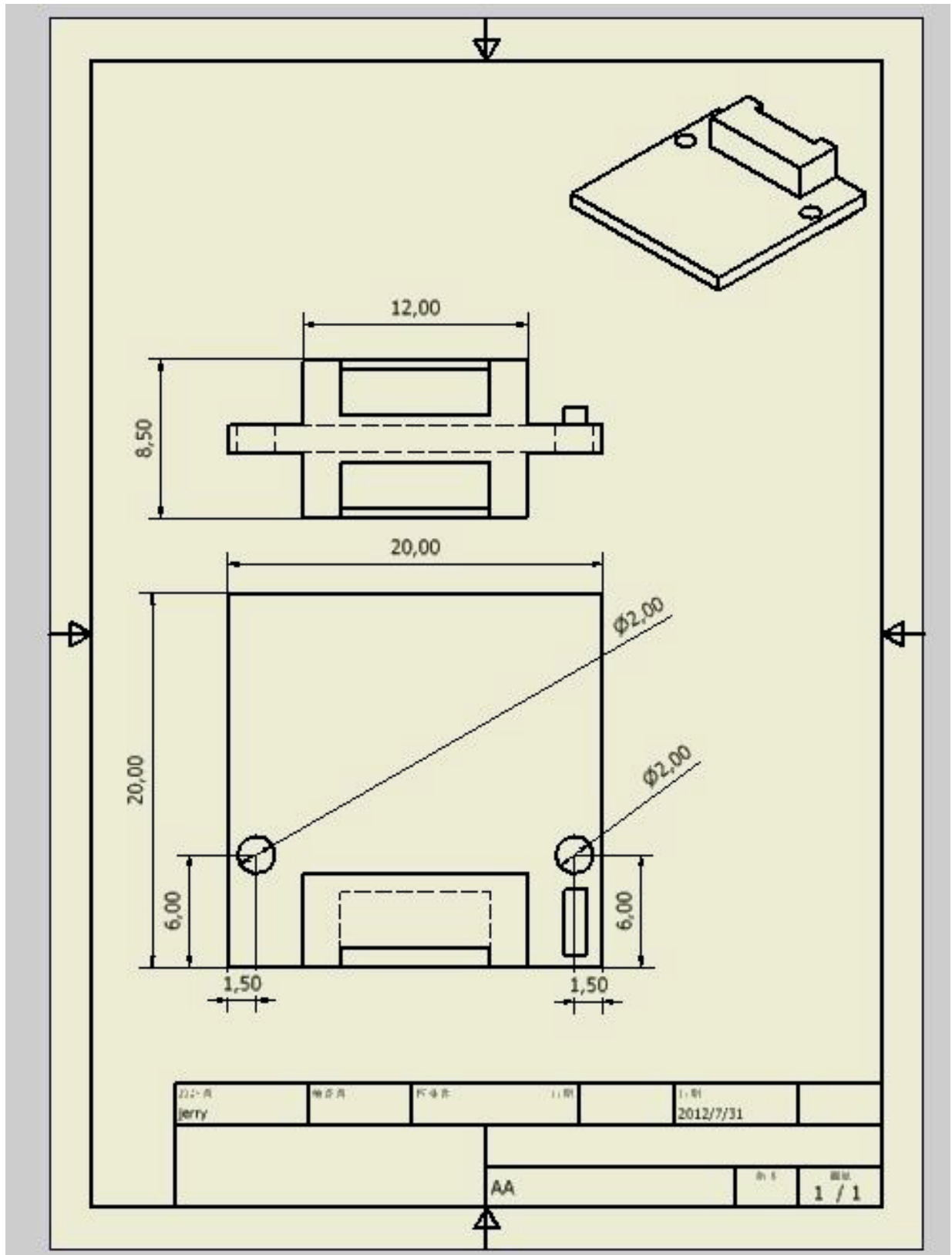
1.3 Specifications

	RM-G211 Analog to Digital module
Analog to Digital	8 Channel 12 Bit (AD7998)
Interface	I ² C
Default Address	0x21
Connectors	1.25mm 6-pin wafer for I ² C x 2
Power Input	DC-in 5V
Dimension	20mm X 20mm
Weight	2.5g

1.4 I²C Address

- Default : 0x21

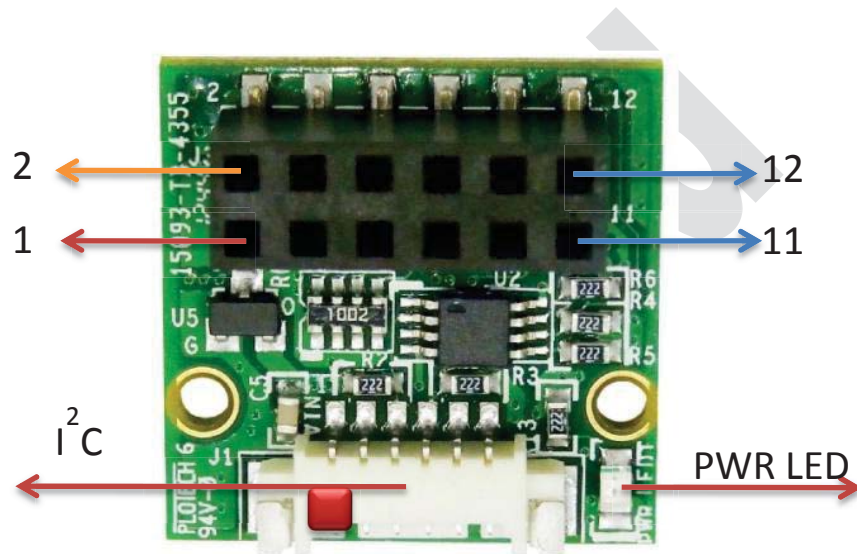
1.5 Board Dimension



Chapter 2

Introduction

2.1 Board Outline



ADC Pin Assignment

1	2	3	4	5	6	7	8	9	10	11	12
5V	3.3V	GND	GND	VIN1	VIN2	VIN3	VIN4	VIN5	VIN6	VIN7	VIN8

2.2 Connectors & Jumpers Summary

Summary Table			
	Description	Type of Connections	Pin
J1	I ² C connector (Top)	Wafer, 2.54mm,6x1	6-pin
J2	I ² C 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

Introduction

Sample and development code

The RM-G211 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.