RoBoard Panel RP-089
Manual V1.0
The Heart of Robotics

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DMP Electronics Inc

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T a b l e O f C o n t e n t s

C h a p t e r   1

Introduction

1.1 Packing List

Product Name	Package
RP-089	8.9 Inches LCD Panel and cable

1.2 Product Description

RoBoard Panel RP-089 is a color active matrix thin film transistor (TFT) liquid crystal display (LCD). The RP-089 is composed of a TFT LCD panel, a driving circuit and a back light system. RP-089 Panel has a 8.9 (17:10) inch diagonally measured active display area with WSVGA (1024 horizontal by 600 vertical pixel) resolution.

1.3 Specifications

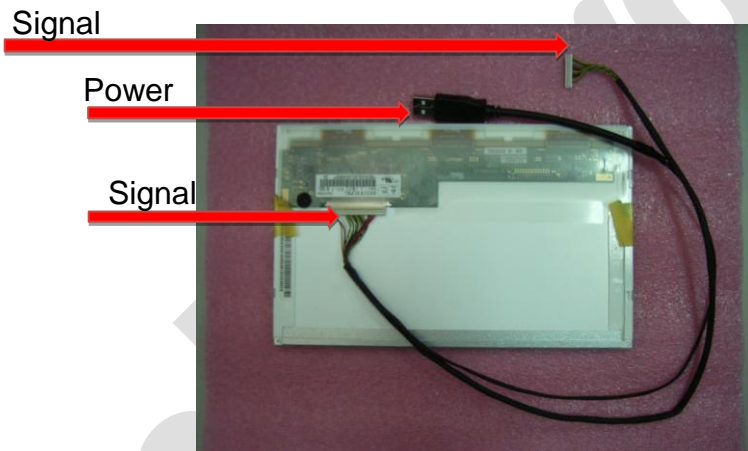|	RP-089
Outline Dimension	213.36 x 129.55 x 5.15 mm (Typ.)
Display Area	195.072 (H) x 113.4 (V) mm
Number of Pixel	1024 RGP (H) x 600 (V)
Back-light	Single LED (Side-Light type)
Power Consumption	Logic System 1.0W (Max)
	B/L System 2.7W (MAX)
Power input	DC +5V via USB connector

C h a p t e r 2

Installation

2.1 RP-089 Outline

Signal

Power

Signal

2.2 Connectors

Connectors
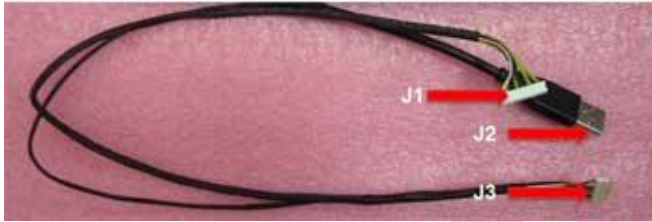
2.3 Connectors & Jumpers Summary

		Summary Table		

	Description	Type of Connections	Pin
J1	Signal connector to MiniPCI VGA LVDS	Wafer, 1.54mm	15-pin
J2	Power input (DC +5V)	USB	
J3	Input Signal connector	Wafer, 1.0mm	30-pin

2.4 Pin Assignments

Wafer 30Pin -- Pitch 1.0 mm		Wafer 15Pin Pitch - 1.25mm
Pin From LCD Panel	Signal	Pin for MiniPCI-VGA
1	GND	6
2	VDD	2
3	VDD	NC
4	VDD	NC
5	ADJ	1
6	CLK_EDID	NC
7	DATA_EDID	NC
8	RXIN0-	4
9	RXIN0+	3
10	GND	5
11	RXIN1-	8
12	RXIN1+	7
13	GND	9
14	RXIN2-	12
15	RXIN2+	11
16	GND	10
17	RXCLKIN-	15
18	RXCLKIN+	14
19	GND	NC
20	NC	NC
21	NC	NC
22	GND	13
23	GND	**USB Pin 4**
24	VCC	**USB Pin 1**
25	VCC	**USB Pin 1**
26	VCC	**USB Pin 1**
27	NC	NC
28	NC	NC
29	NC	NC
30	NC	NC

C h a p t e r   3

Development Note

Update VBIOS and Driver

The RP-089 provides VBIOS and Driver 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.