User Guide Standards

Raspberry Pi shield board

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Hardware Guide

1   Hardware Requirements

E Ink's Raspberry Pi shied board is intended to highlight the features and benefits of the ePaper display (EPD) display. This low power ePaper display uses E Ink technology which allows each pixel to show Three color states – black, white and red.   This document will provide details on how to connect Raspberry Pi shied board.
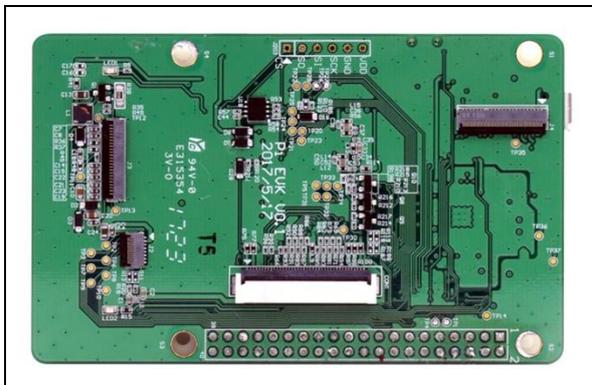
Raspberry Pi shied board needed work with:

● Raspberry Pi #3: Please reference Raspberry Pi website
● Compatible display panels.(EL029TR1 2.9"): Please reference Eink Shop website

(1) PACKAGE CONTENTS

This demo kit contains the following:

● Raspberry Pi shied board
● Micro-USB cable

Raspberry Pi shied board   Micro-USB cable

(2) Feature

● SPI interface to EPD display
● gray level support(Black, White and Red)
● Does not require dedicated flash memory for waveform data
● System flash memory can be shared
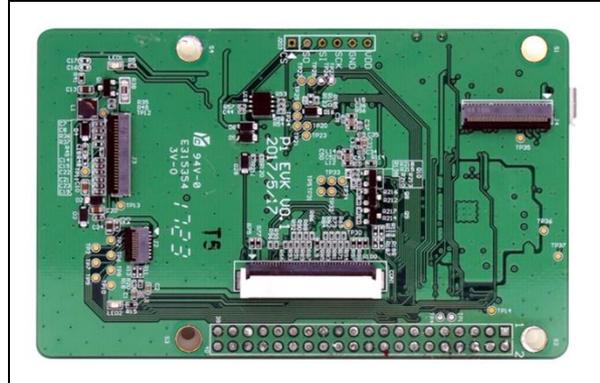● One GPIO connected to LED

2   Hardware Guide

This section describes the hardware setup of the EPD demo kit.

(1)   HARDWARE REQUIREMENTS

Raspberry Pi #3
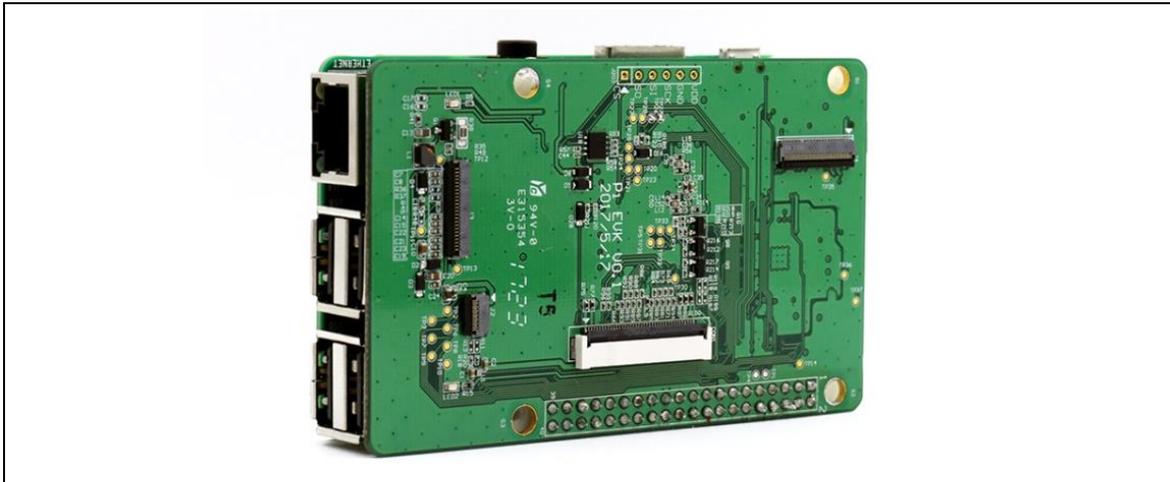

Raspberry Pi shied board
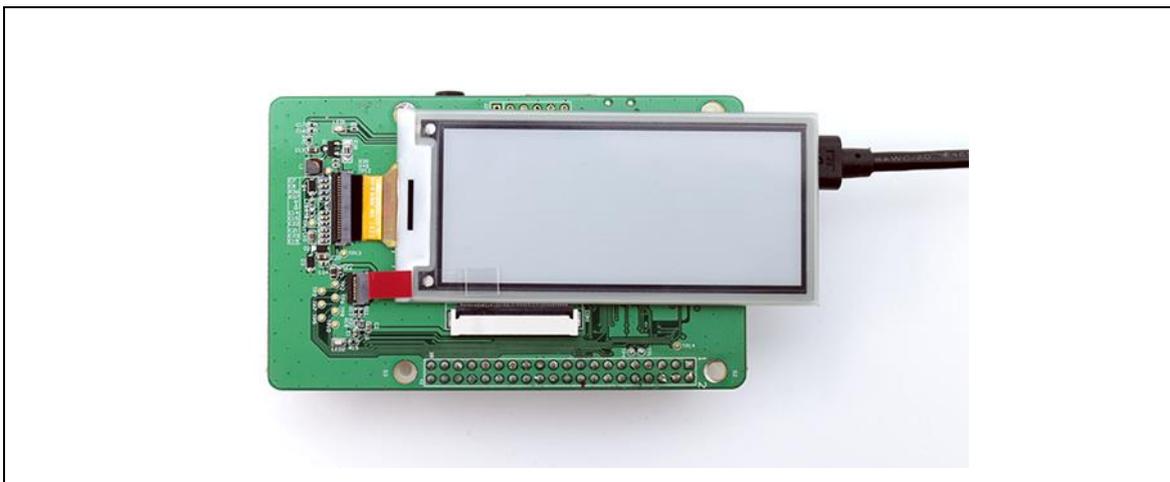

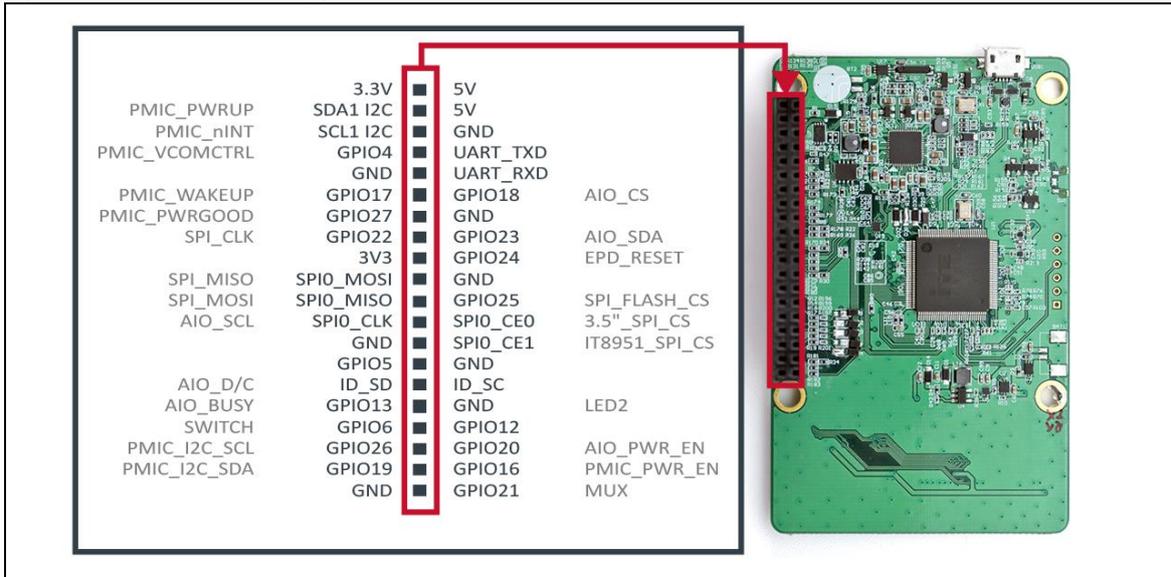Micro USB cable

Windows PC

(2) HARDWARE CONNECTION

Connection of Raspberry Pi, Raspberry Pi shied board and EL029TR1

Refer to following figure to connect Raspberry Pi to power adapter or PC USB slot that Raspberry Pi will auto run the default pictures.

(3) Hardware Description

The Raspberry Pi shied board, It is adapter board for Raspberry Pi, It's can use to light on the EPD EL029TR1, users can send image data to the board or update settings through Raspberry Pi and we provide the sample code for Raspberry Pi

Raspberry Pi shied board function

3   Contact Information

For more information, please visit

http://www.eink.com

For sales office addresses, please visit

http://www.eink.com/contact_sales.html

4   Legal Information

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● Revision History

Version	Date	Pag	Description	Author
0.1	2017/8/18		Initial	Evan Chou