User Guide Standards

ICE_ Demo Board

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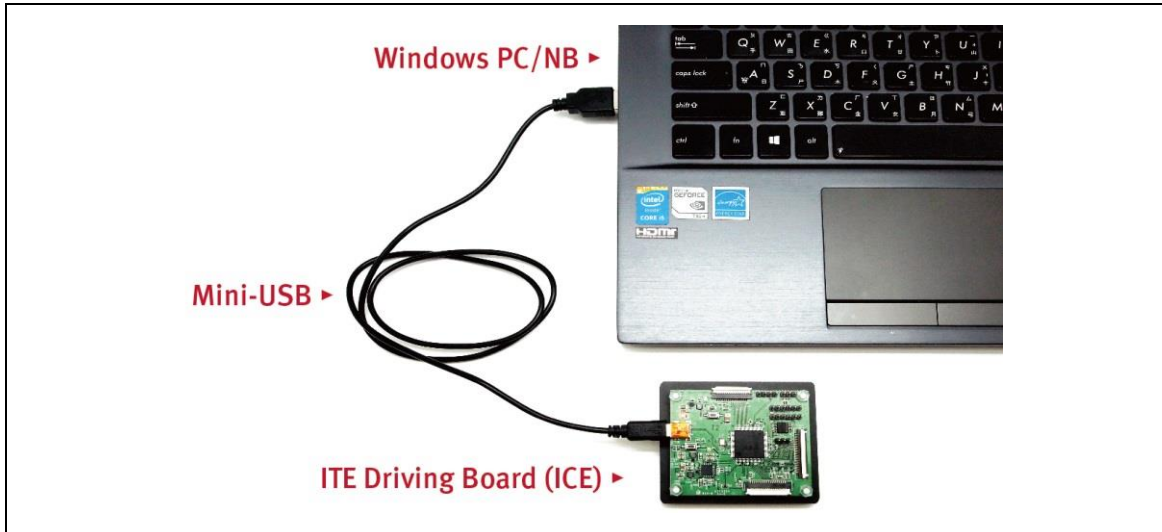
Firmware Update SOP

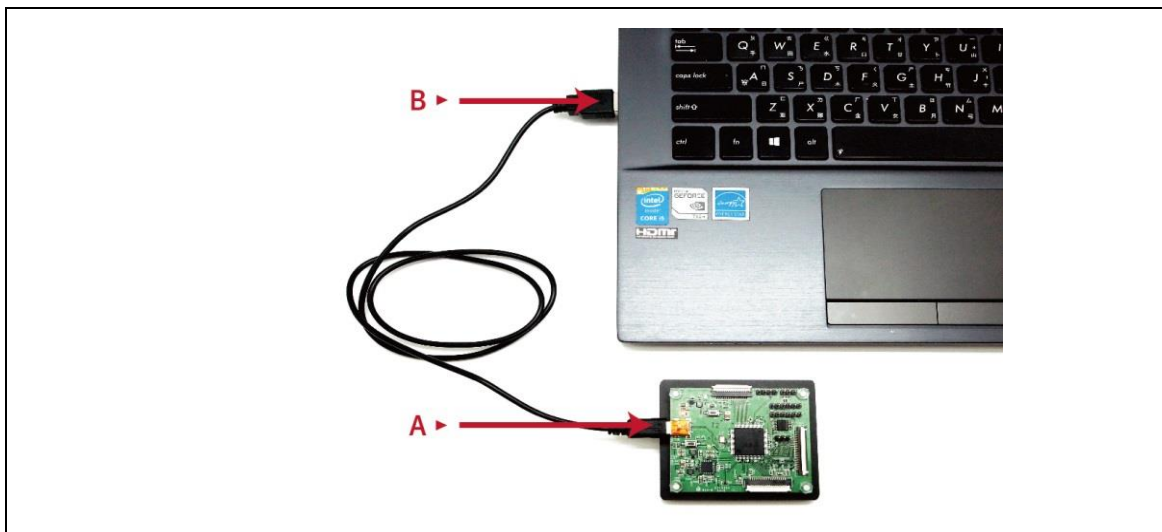## 1 Hardware Guide

(1) Hardware Requirements

The firmware update requirements included the ITE driving board (ICE), mini-USB cable and Windows PC/NB.

(2) Hardware Installation

Refer to following figure to setup ITE driving board and connect it to your PC/NB :

- a. Connect the mini-USB cable to ITE driving board
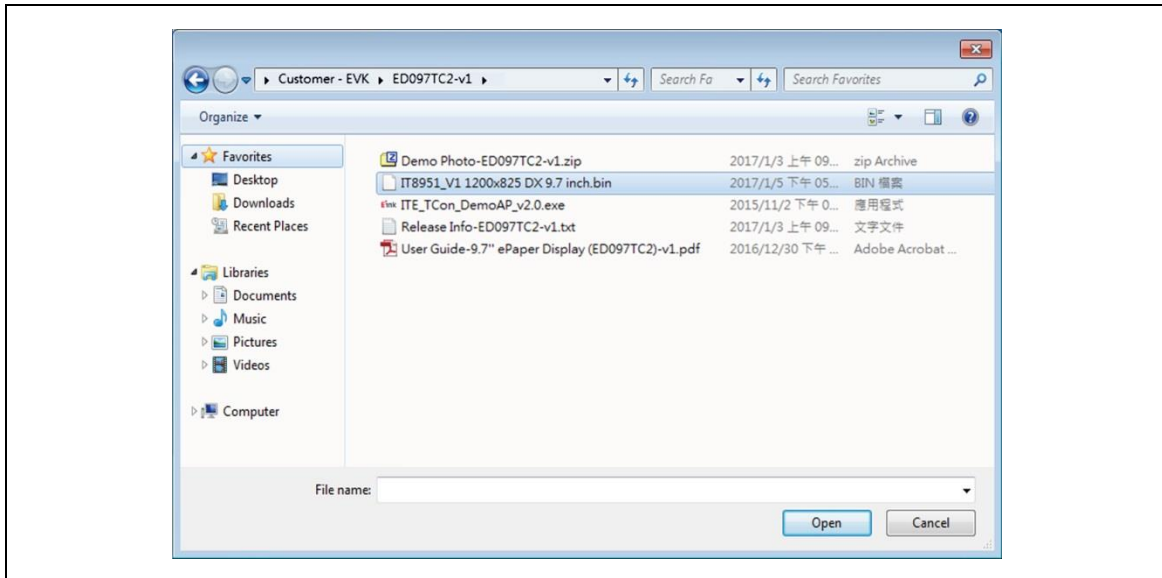- b. Connect the mini-USB cable to PC/NB USB port

2 Software Guide

(1) Software Requirements

Application software ITE_TCon_DemoAP_v2.0.exe required.

Firmware required: Load the corresponding bin file of ePaper display.

Put the firmware with application software in the same folder.

(2) Firmware Update by Application Software

● Press icon Eink ITE_TCon_DemoAP_v2.0.exe to open application software.

Click "connect" button to make sure the software has connected to physical drive.
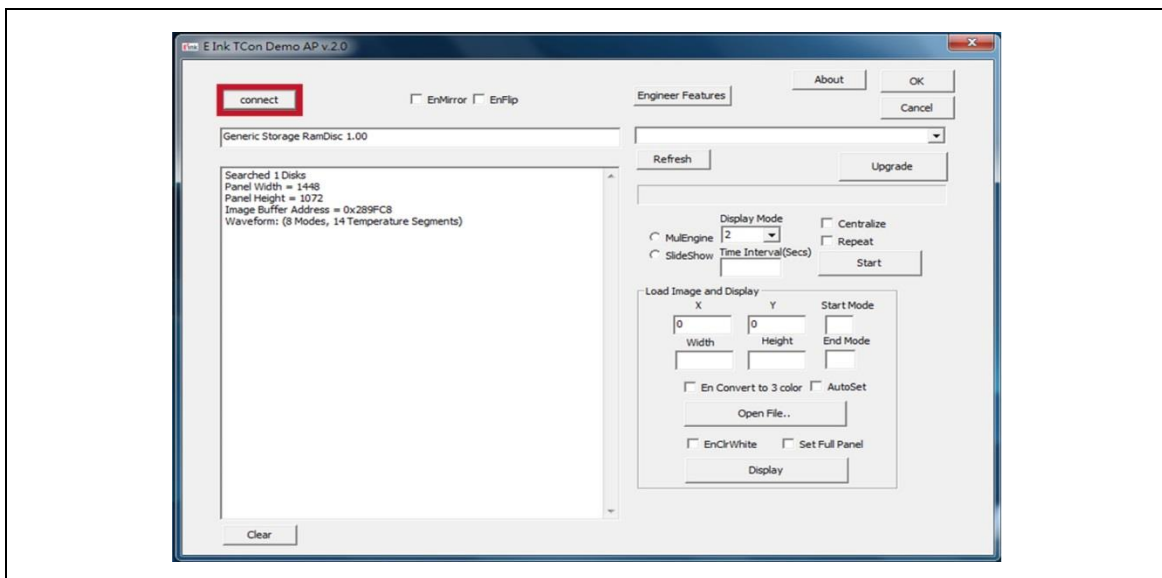
● Click "Refresh" and choose the FW option which you need to load:
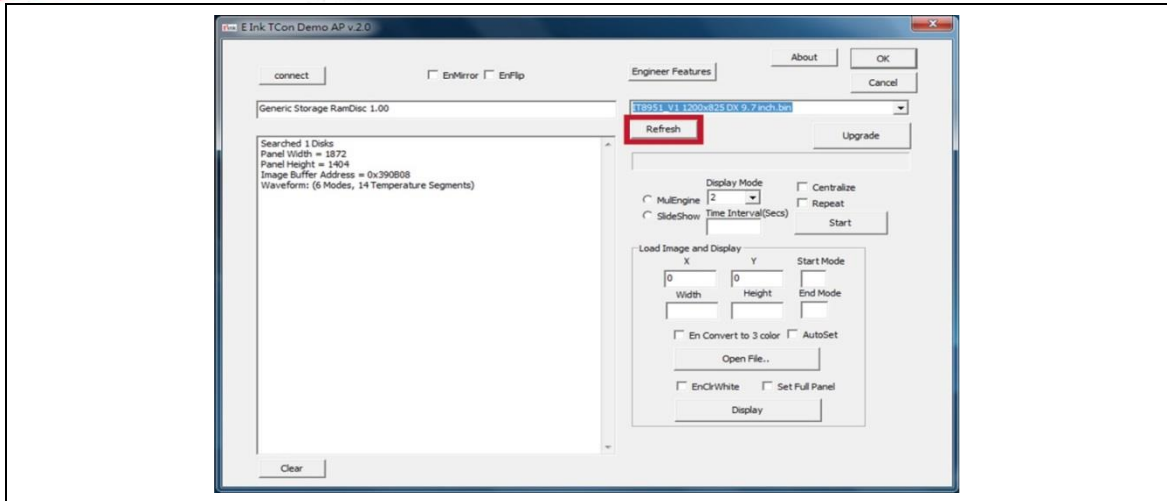
● Click "Upgrade" to load the FW to ICE.

● FW upgrade successful, click "OK" button.

● Click "OK" button to close the AP.

● Pull out the mini-USB cable, firmware update finished.
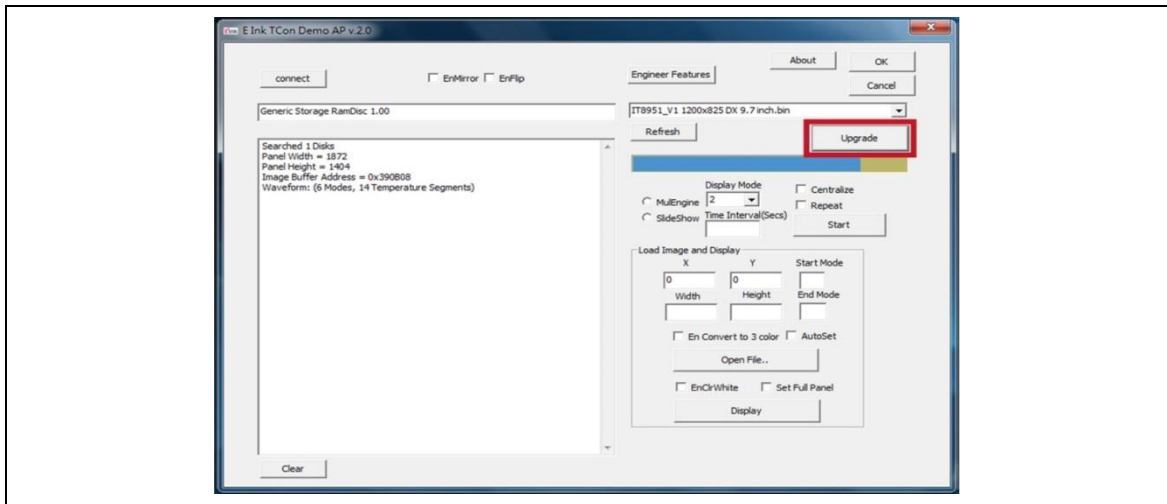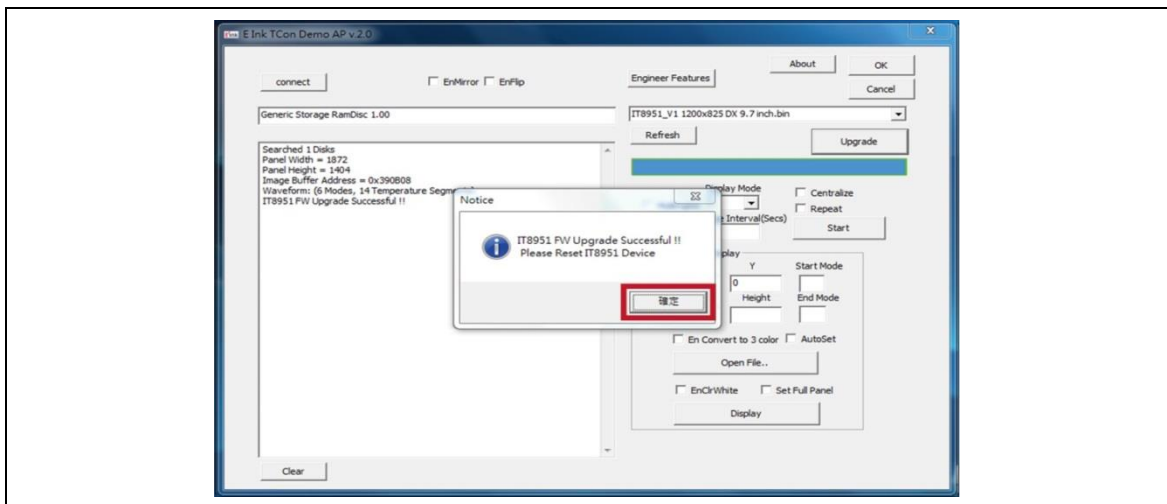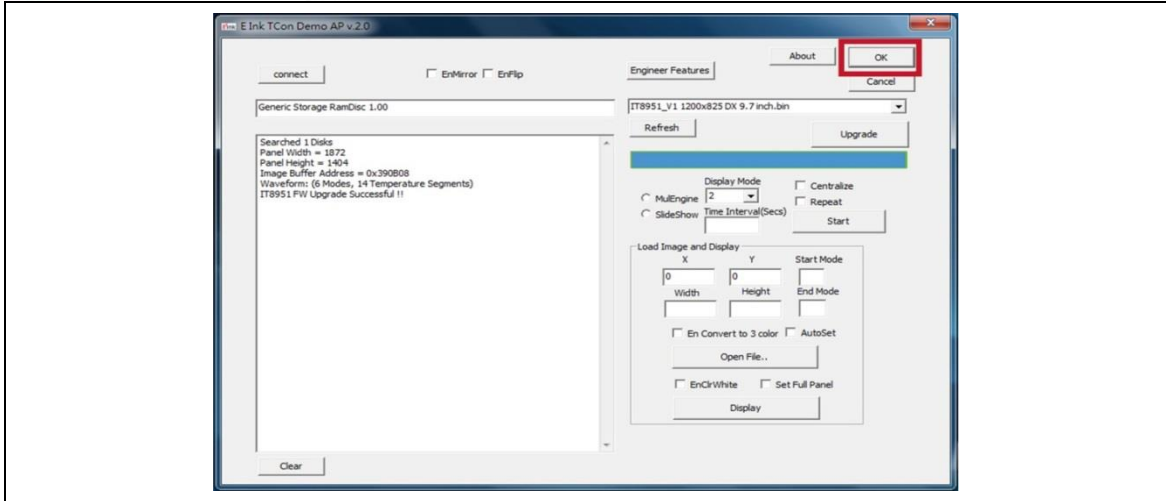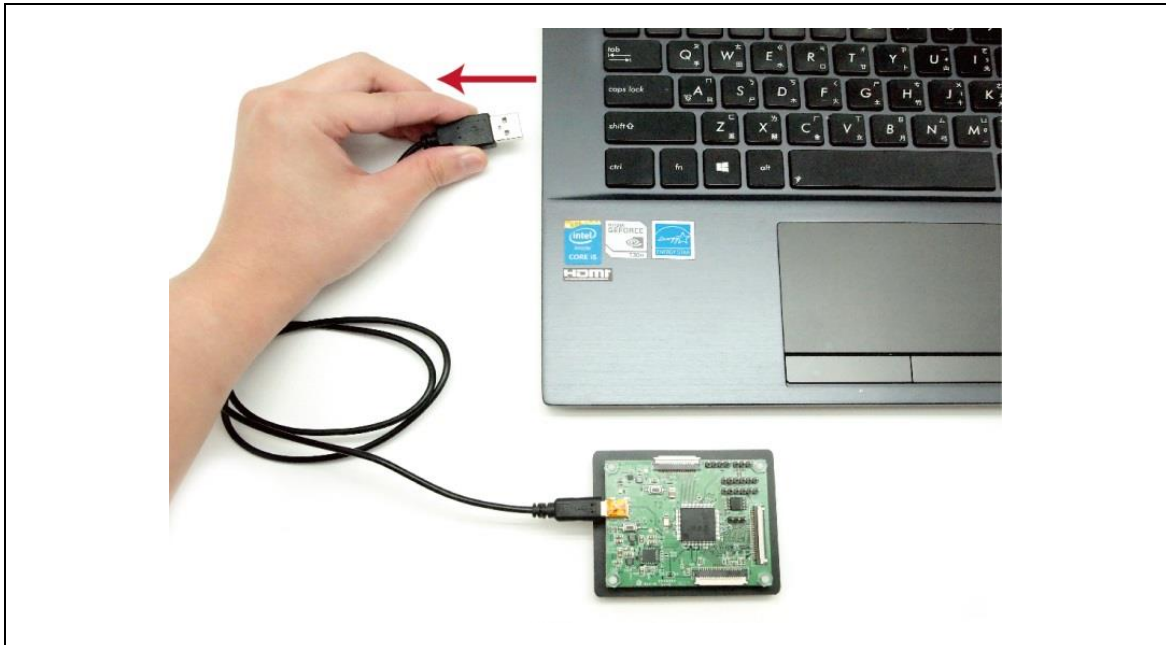
Hardware Guide

1 Hardware Requirements

E Ink's ICE demo kit 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 two color states – black and white.   This document will provide details on how to load custom images onto the EPD.

Included in the ICE demo kit are an ITE board and a mini-USB cable.

(1) PACKAGE CONTENTS

This demo kit contains the following:

● ITE Driving board

● Mini-USB cable
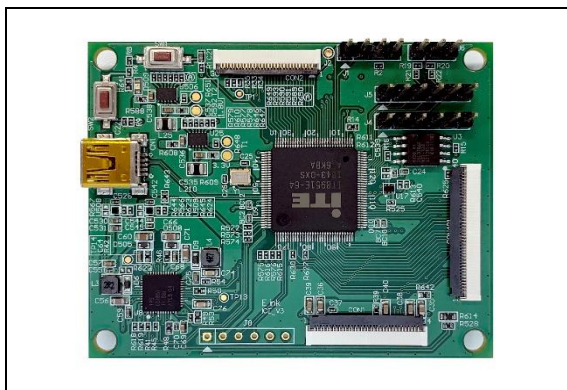
Specification

Item	Specification
TCON	IT8951 DX
TCON Solution	Hardware TCON
Input	5Vdc (USB), power on when connected to PC

2   Hardware Guide

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

(1)   HARDWARE REQUIREMENTS
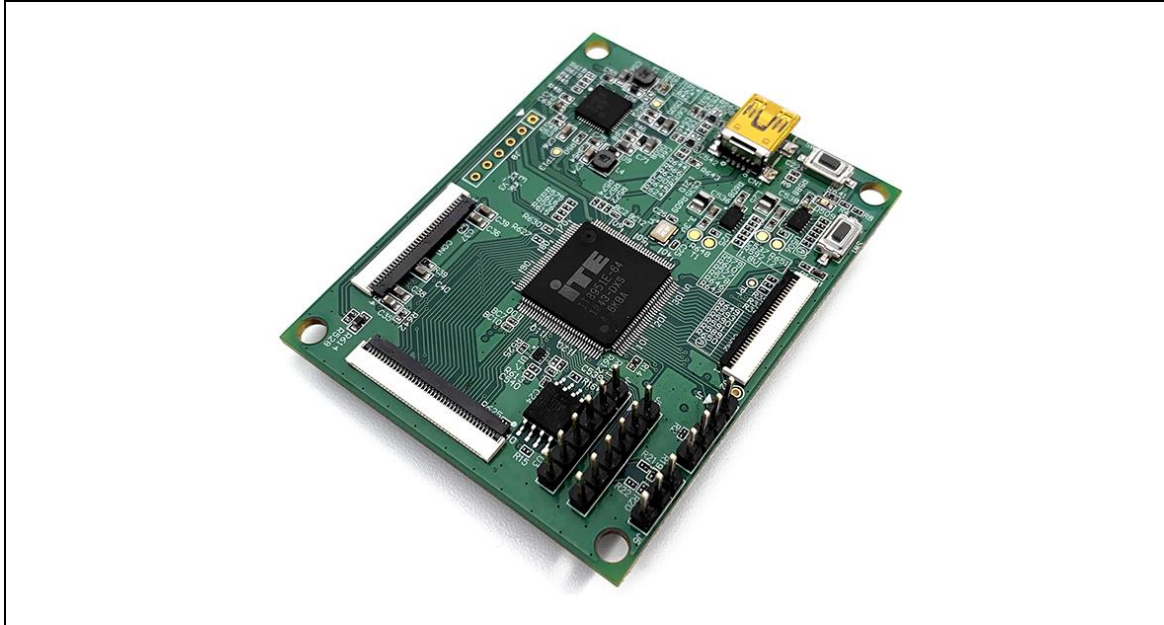
ITE board

Mini USB cable

Windows PC

Table 1 Minimum PC Requirements

CPU	Pentium III 800 MHz or later
RAM	128MB or greater
Required Software	Windows 7 or newer
Interface	USB port

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(2) Demo Kit Hardware Description

The EPD demo kit includes an ITE board.   The ITE board (connector 1 or connector 401) and E Ink display panel are connected via a corresponding FPC adapter (ED060KC1 and ED078KC1 are not required). The mini USB port on the demo kit supplies data and power to the ITE board and E Ink panel. Using the E Ink PC application, users can send image data to the board or update settings
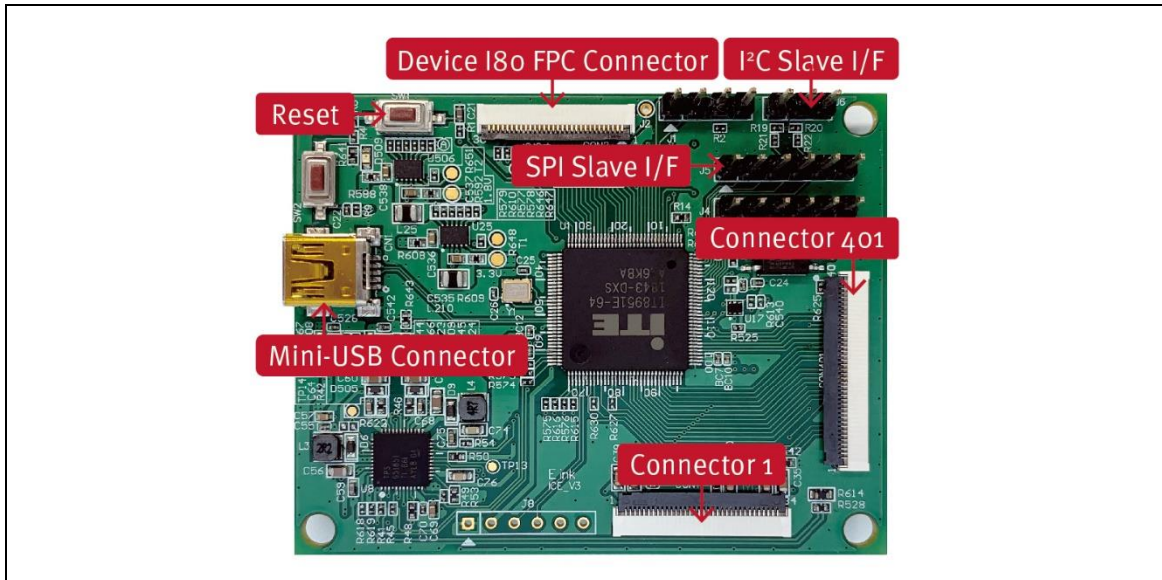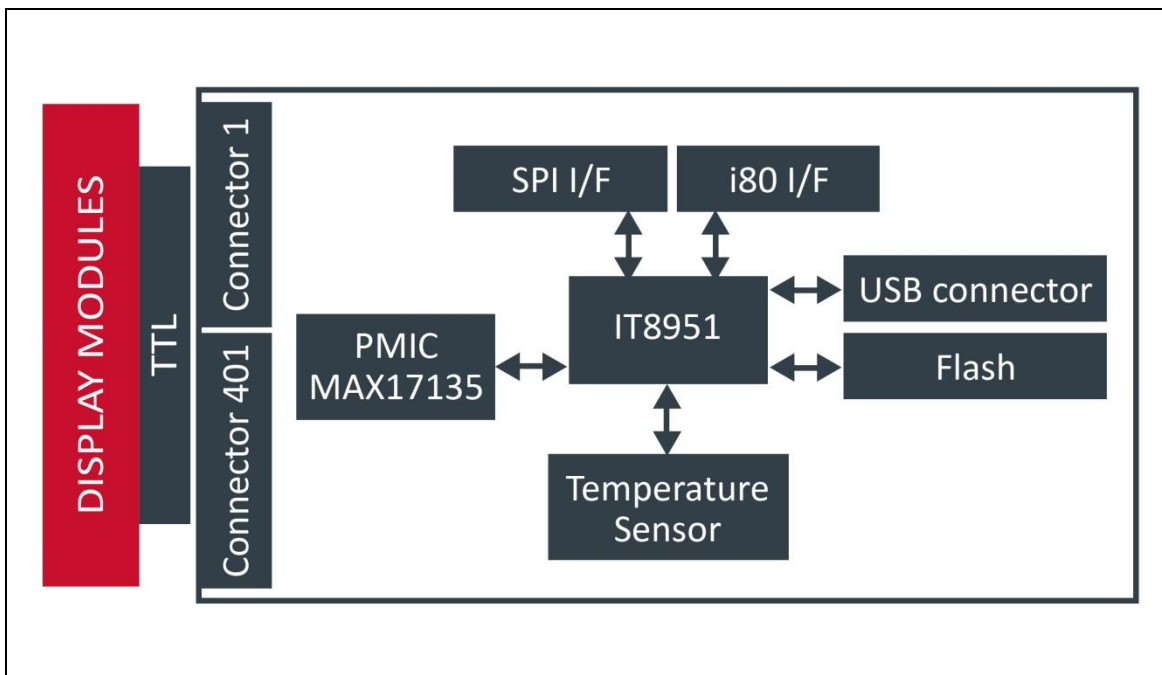

Figure 2 ITE board function

3   ICE FUNCTION BLOCK

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	2017/4/19		Initial	Joseph Wu