



Website: www.displaytech-us.com

Embedded Demonstration Board Product Specification

EMB043TFTDEMO

4.3" Color TFT Display Demonstration Board

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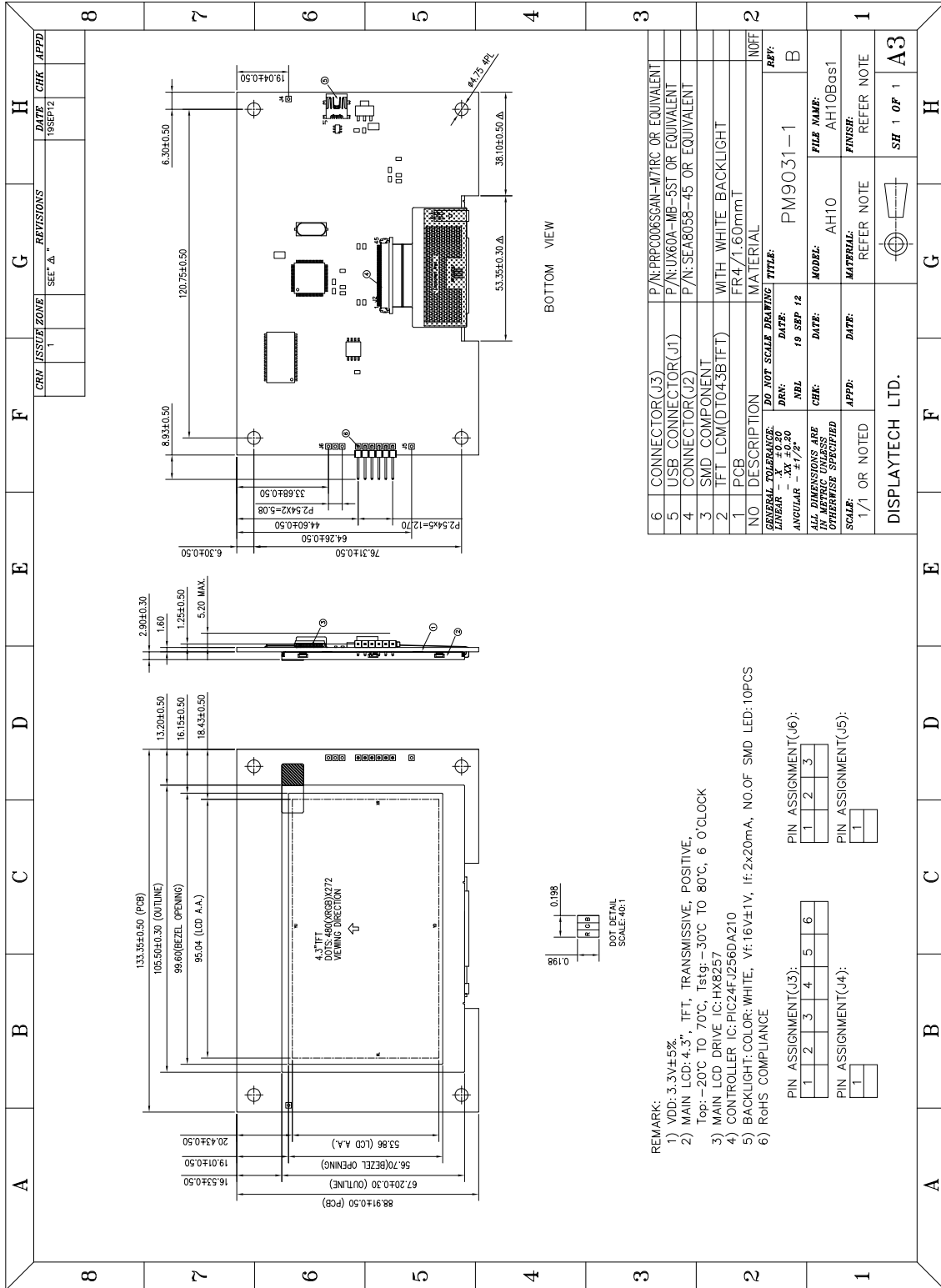
1. Introduction

The Displaytech EMB043TFTDEMO is a demonstration and development board for the Displaytech DT043BTFT 4.3" color TFT display. The display is controlled by a Microchip PIC24FJ256DA210 microcontroller with integrated graphics controller. Furthermore, the demonstration board includes on-board external SRAM for extra frame-buffer memory as well as SPI flash for storing fonts and images.

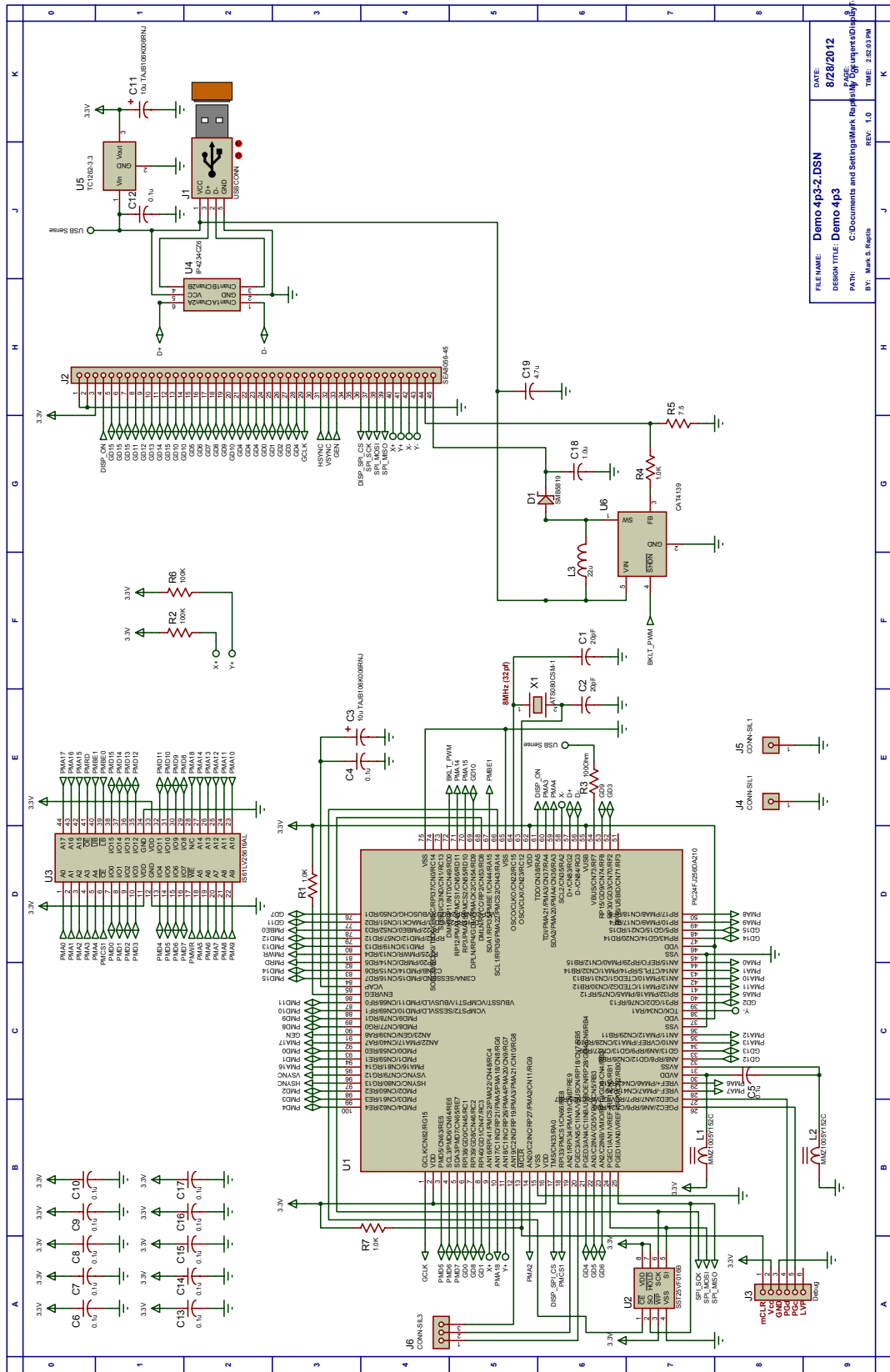
2. General Specifications

Item	Specification	Unit
LCD Resolution (Horizontal)	480	Line
LCD Resolution (Vertical)	272	Line
PCB Size (Horizontal)	5.25	Inch
PCB Size (Vertical)	3.5	Inch
Interface	USB and PICKit	---
TFT Driver IC	Himax HX8257-A	---
Microcontroller/Graphics Controller	PIC24FJ256DA210	---
SRAM Size	512	KB
External SPI Flash Size	2	MB
Power Supply	5 (from USB)	V

3. Mechanical Drawing



4. Schematic



FILE NAME: Demo 4p3-2.DSN	DATE: 8/28/2012
DESIGN TITLE: Demo 4p3	TIME: 2:52:33 PM
PATH: C:\Documents and Settings\Mark Regan\My Documents\Displaytech	
BY: Mark S Regan	REV: 1.0

5. Example Firmware

Example firmware running the Microchip Graphics Object Layer demonstration can be obtained from the Displaytech forum, at:

https://www.dropbox.com/s/vglpxbcd1rjvzpa/SEA_EMB043TFTDEMO_SW_SRC_REV1.0.zip

Note: Microchip's MPLABX IDE and X16 compiler will be required to run the demo. Both are available at <http://www.microchip.com>.

5.1. Programming

To program the EMB043TFTDEMO, connect a Microchip Pickit3 programmer (available at <http://www.microchipdirect.com>) to the 6-pin header and the supplied USB cable to the USB-Mini connector.

Open the firmware package in MPLAB and build the project in release mode. Select the PICKit3 as the programmer and program the device.

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