

FTDI Chip

VM800B Datasheet

Embedded Video Engine

Basic module



General Purpose Multi Media Controller

1 Introduction

The VM800B is a development module for FTDI's FT800, which is used to develop and demonstrate the functionality of the FT800 Embedded Video Engine, EVE.

This module behaves as an SPI slave, and requires a SPI Master for proper micro-controller interfacing and system integration.

VM800B modules support 3 different LCD panel size options and are designed for industrial or commercial environments with precision fitted bezels in either black (-BK) or pearl (-PL).

- VM800B35A-xx is the 3.5" LCD
- VM800B43A-xx is the 4.3" LCD
- VM800B50A-xx is the 5.0" LCD

1.1 Features

The VM800B utilises the FTDI FT800 Embedded Video Engine, EVE. Graphic, audio and touch features of the FT800 chip can be accessed with the VM800B. For a full list of the FT800's features please see the FT800 datasheet. The VM800B has the following features:

- Ready to use LCD module.
- Integrated with resistive touch screen LCD panel
- On board LCD backlight LED Driver
- On board audio power amplifier and micro speaker
- Flexible power supply. Powering the VM800B using either a 2.1mm power jack , SPI master connector or via USB Micro-B port
- 5 V tolerant buffers when used with a 5V SPI Master.
- Precision fitted bezel in black(-BK) or pearl (-PL)

2 Ordering Information

Note that the kits below require a 5V/1A power supply. It is NOT provided in the development kit, but is offered as an optional accessory with the following part types:

Part No.	Description
VM800B35A-BK	Credit Card Size VM800B module, supports 3.3/5v MCU Adapter Board, 3.5 inch TFT LCD display panel preinstalled, black bezel
VM800B43A-BK	Credit Card Size VM800B module, supports 3.3/5v MCU Adapter Board, 4.3 inch TFT LCD display panel preinstalled, black bezel
VM800B35A-BK	Credit Card Size VM800B module, supports 3.3/5v MCU Adapter Board, 5.0 inch TFT LCD display panel preinstalled, black bezel
VM800B35A-PL	Credit Card Size VM800B module, supports 3.3/5v MCU Adapter Board, 3.5 inch TFT LCD display panel preinstalled, pearl bezel
VM800B43A-PL	Credit Card Size VM800B module, supports 3.3/5v MCU Adapter Board, 4.3 inch TFT LCD display panel preinstalled, pearl bezel
VM800B35A-PL	Credit Card Size VM800B module, supports 3.3/5v MCU Adapter Board, 5.0 inch TFT LCD display panel preinstalled pearl bezel
VA-PSU-UK1	Accessory - UK Model 5V/1A USB Power Supply (Mfr # JX-B0520C-1-B)
VA-PSU-US1	Accessory - US Model 5V/1A USB Power Supply (Mfr # JX-B0520B-1-B)
VA-PSU-EU1	Accessory - EU Model 5V/1A USB Power Supply (Mfr # JX-B0520A-1-B)
VA800A-SPI	Accessory - High Speed Micro USB to SPI adapter for BASIC boards based on FT232H MPSSE design
VA-FC-1M-BKW	Accessory - Flat USB A to Micro B Cable 1M- Black and White
VA-FC-1M-BLW	Accessory - Flat USB A to Micro B Cable 1M- Blue and White
VA-FC-STYLUS1	Accessory - Resistive Touch Screen Pen Stylus

Table 2-1 – Ordering information