

gen4 FT81X Series

Product Brief



- General Specifications and features
- Models and sizes
- What's in the box?
- Target market & Application Uses
- Information resources



- The gen4-FT81X series is a collection of embedded SPI displays with an integrated FTDI FT812 or FT813 video engine.
- Can be connected directly to an SPI host and provide a powerful set of graphics features via the on-board video engine.
- Four-in-one functionality:
 - A TFT LCD Display
 - Audio with amplifier enabling
 - Resistive or capacitive touch screen
 - Integrated Video Engine.
- The FT81X Video Engine runs the FTDI version of EVE (Embedded Video Engine), which targets high quality graphics displays with Widget support, designed to offload the Host Processor and provision of a variety of graphics features.

Additional Key Features

- LCD TFT Screen with Resistive or Capacitive Touch.
- Mono PWM Audio output with separate amplifier enable, designed to be connected directly to a simple filter and external amplifier circuit.
- On board FTDI FT812 or FT843 Video Engine.
- SPI Interface to Host Processor/Controller, up to 30Mhz (Mode 0 only).
- Programmable Interrupt Controller, with dedicate Interrupt pin to Host.
- 64 voice polyphonic sound synthesizer.
- PWM dimming control for LCD backlight
- Power mode control to put the FT812 into sleep and standby modes, with dedicated power down pin to Host.
- JPEG and motion-JPEG decode
- Single 5.0V supply
- 3.3V SPI Bus, Audio Output and amplifier Enable, along with GPIO (not 5V tolerant).

Models with Resistive Touch

FT812 Models



gen4-FT812-43T

- 4.3" LCD TFT Display
- 480 x 272 pixel resolution
- Resistive Touch
- FT812 Video Engine



gen4-FT812-50T

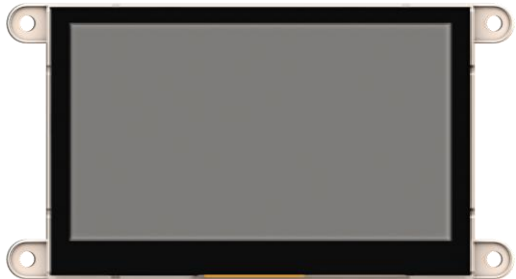
- 5.0" LCD TFT Display
- 800 x 480 pixel resolution
- Resistive Touch
- FT812 Video Engine



gen4-FT812-70T

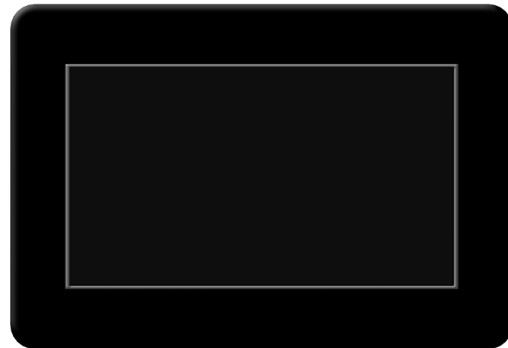
- 7.0" LCD TFT Display
- 800 x 480 pixel resolution
- Resistive Touch
- FT812 Video Engine

FT813 Models



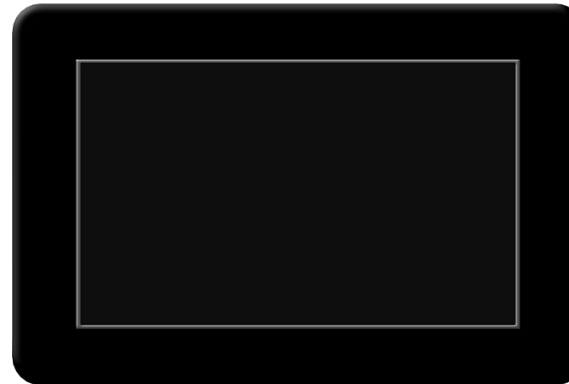
gen4-FT813-43CTP

- 4.3" LCD TFT Display
- 480 x 272 pixel resolution
- Capacitive Touch
- FT813 Video Engine



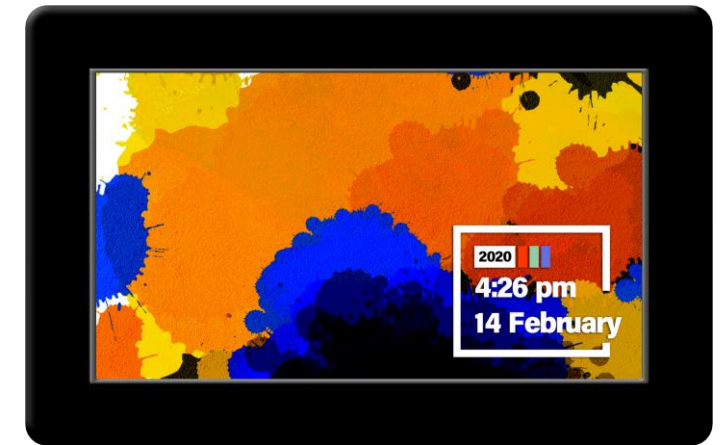
gen4-FT813-43CTP-CLB

- 4.3" LCD TFT Display
- 480 x 272 pixel resolution
- Capacitive Touch with Cover Glass
- FT813 Video Engine



gen4-FT813-50CTP-CLB

- 5.0" LCD TFT Display
- 800 x 480 pixel resolution
- Capacitive Touch with Cover Glass
- FT813 Video Engine



gen4-FT813-70CTP-CLB

- 7.0" LCD TFT Display
- 800 x 480 pixel resolution
- Capacitive Touch with Cover Glass
- FT813 Video Engine

What's in the box?

- Display Module
- gen4-Breakout Board
- 30-way 150 mm FPC Cable



Target Market & Application Areas

Predominantly designed for users familiar with the FTDI EVE environment

- Point of Sale Machines
- Multi-function printers
- Instrumentation
- Home security systems
- Video Conferencing Systems
- Medical Appliances
- Blood Pressure Displays
- Heart monitors
- Home appliance devices
- Thermostats
- Vending Machines
- And much more

- Product Pages - click [HERE](#)
- Datasheet – click [HERE](#)
- Getting Started guide – click [HERE](#)
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