ConnectEVE

ConnectEVE FT800 BREAKOUT BOARD

audio touch

4.3" TFT DISPLAY 480x272px

www.mikroe.com

EVE
FT800 BREAKOUT BOARD

...tionality: display, audio, and touch operations,
...have an advanced solution to easily create
...e-of-the-art interactive display systems.

RoHS

HW.REV. 1.00

INT   P5
SCK   ES
MOSI MISO
NC   NC
GND   +3.3V

TFT

262K colors
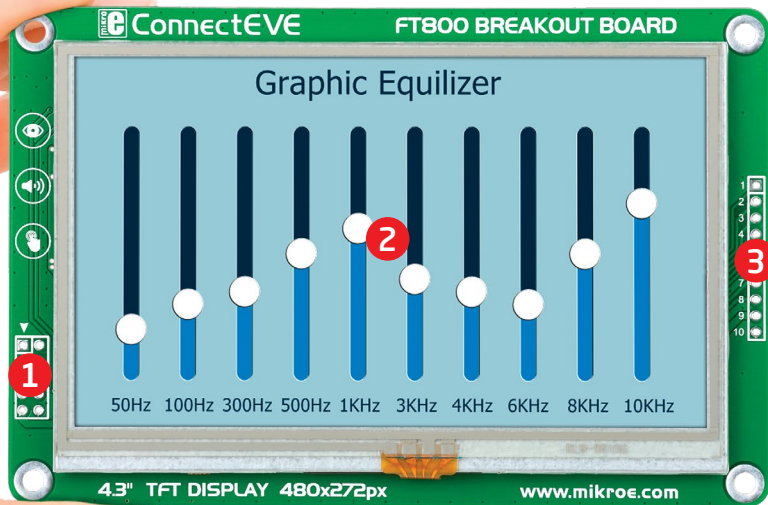
Introduction to ConnectEVE


Figure 1: ConnectEVE board

The ConnectEVE board contains a **FT800Q** graphic controller and a 4.3" TFT color display **AT043B35** with 480x272 pixel resolution. The display is driven by a **HX8257A** display controller capable of showing advanced graphical content. Each pixel can display 262K different colors. TFT display is covered with a resistive touch panel which can be used as input device. The board is primarily designed to be used as an additional display on MikroElektronika Easy development boards. For further connectivity there are two headers (2X5 and 1X10). After testing and building the final program, this board can also be used in your final device. The board also contains mounting holes for easier integration into your designs.

①

2x5 header pinout:

1. **PD** - Power down input
2. **INT** - Host interrupt
3. **CS** - SPI chip selection line
4. **SCK** - SPI clock line
5. **MISO** - SPI Master In Slave Out
6. **MOSI** - SPI Master Out Slave In
7. **NC** - Not connected
8. **NC** - Not connected
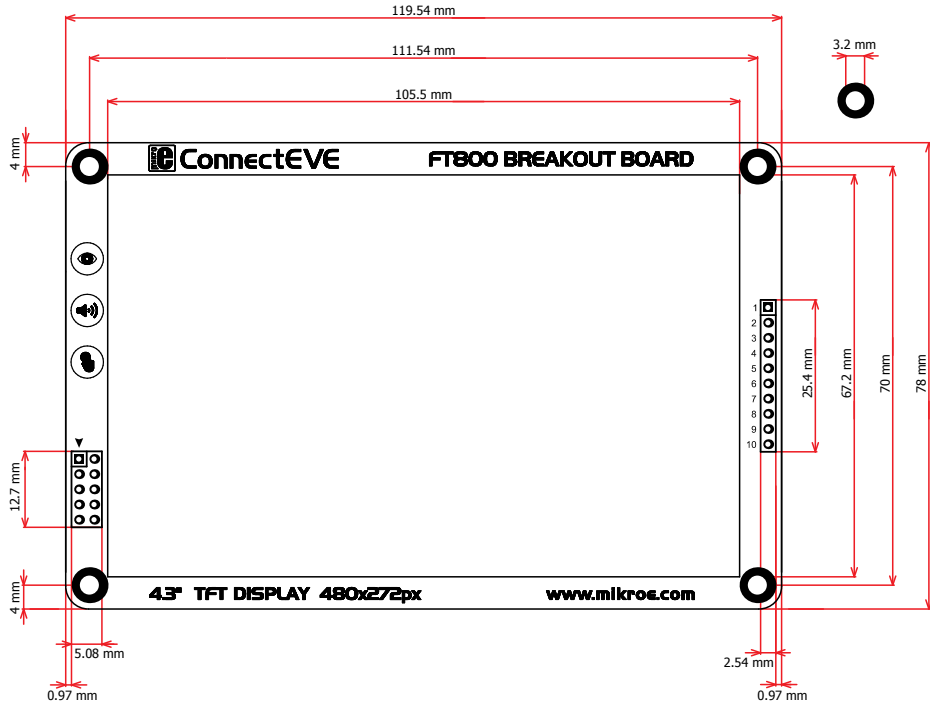9. **+3.3V** - 3.3V power supply
10. **GND** - Reference ground
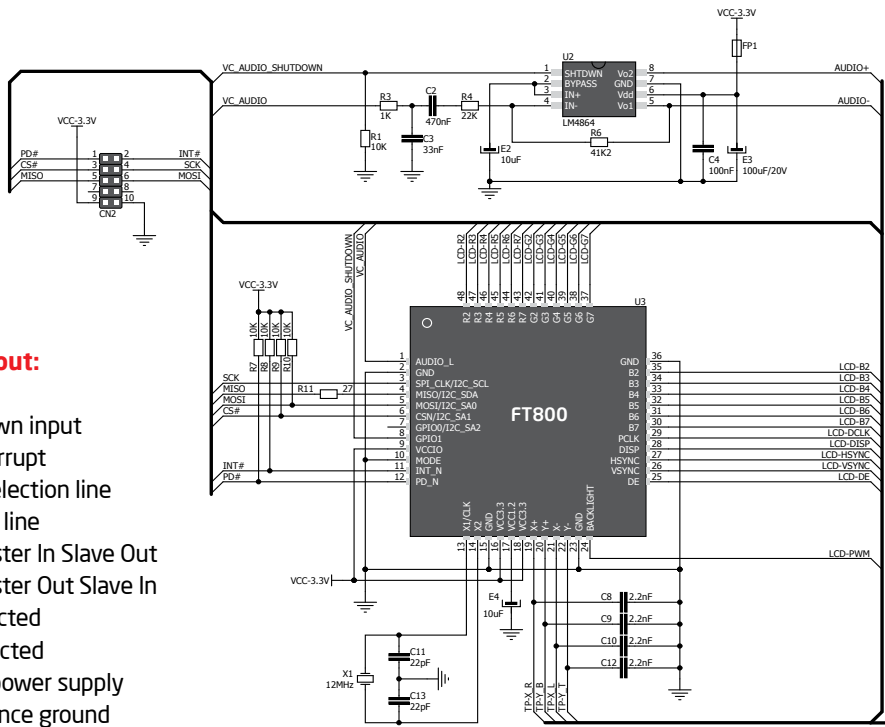
②

480x272 pixel 4.3" color **TFT display** with LED back-light, **HX8257A** controller and resistive touch panel.

Graphic Equilizer

50Hz 100Hz 300Hz 500Hz 1KHz 3KHz 4KHz 6KHz 8KHz 10KHz
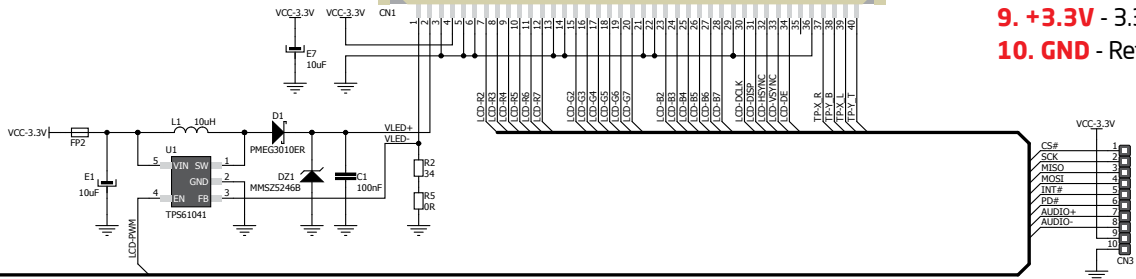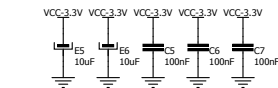
③

1x10 header pinout:

1. **CS** - SPI chip selection line
2. **SCK** - SPI clock line
3. **MISO** - SPI Master In Slave Out
4. **MOSI** - SPI Master Out Slave In
5. **INT** - Host interrupt
6. **PD** - Power down input
7. **AUDIO+** - Audio out +
8. **AUDIO-** - Audio out -
9. **+3.3V** - 3.3V power supply
10. **GND** - Reference ground

Figure 2: ConnectEVE schematic

Board dimensions

119.54 mm

111.54 mm

105.5 mm

3.2 mm

4 mm

ⓘⓒ ConnectEVE   **FT800 BREAKOUT BOARD**

25.4 mm

67.2 mm

70 mm

78 mm

12.7 mm

4.3" TFT DISPLAY 480x272px   **www.mikroe.com**

4 mm

5.08 mm

0.97 mm

2.54 mm

0.97 mm

TFT

262K colors

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