1. Introduction

EVE Click™ is an accessory board in mikroBUS™ form factor. It's a compact and easy solution for adding graphics controller to your design. It features FT800Q graphics controller, flat cable connector, LM4864 audio amplifier, LED diode as well as screw terminals. EVE Click™ communicates with the target board microcontroller via mikroBUS™ SPI (MISO, MOSI, SCK, CS), INT, RST and AN lines. The board is designed to use 3.3V power supply only. LED diode (GREEN) indicates the presence of power supply.

2. Soldering the headers

Before using your click board™, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.

3. Plugging the board in

Turn the board upside down so that bottom side is facing you upwards. Place shorter parts of the header pins in both soldering pad locations.

4. Essential features

EVE Click™ with it's FT800Q IC is embedded video engine controller that combines display, audio and touch-screen features. It has SPI interface to main board microcontroller (up to 30 MHz), video RGB parallel output interface, mono audio channel output with PWM (via screw terminals), sound synthesizer, PWM backlight dimming control, 4-wires touch-screen with touch force sensing, several power modes and many more.
5. EVE Click™ Board Schematic

6. Flat cable connector

The board contains 40 pin flat cable connector which is used for 4.3" TFT display (480x272 pixel) with touch panel (not included in the touch panel).

7. Code Examples

Once you have done all the necessary preparations, it’s time to get your click board up and running. We have provided the examples for mikroC, mikroBasic and mikroPascal compilers on our Libstock website. Just download them and you are ready to start.

8. Support

MikroElektronika offers Free Tech Support (www.mikroe.com/esupport) until the end of product lifetime, so if something goes wrong, we are ready and willing to help!