Matrix RGB click

Matrix RGB click is a mikroBUS™ add-on board powered by a 32-bit FT900 MCU designed specifically for powering 16x32 RGB LED matrices.

The board has a 16 wire IDC connector for connecting to a single 16x32 LED panel; however, the firmware inside the FT900x chip can drive more than one panel.

Multiple panels can be connected to each other into a daisy-chain configuration (see the video). Matrix RGB click communicates with the target MCU through the SPI interface. It uses a 3.3V power supply only.

Complete kits with Matrix RGB click, a single 32x32 RGB LED matrix panel (consisting of two 16x32 matrices joined together), and a power supply unit are available to order.

Alternatively, panels and power supplies can be purchased separately.

Technical Specifications

Applications

Driving up to 16 16x32 RGB LED panels (more than 32 is possible, but flickering may occurr).

Key features

Can drive up to 16 panels of 16x32 RGB LEDs
Removes the load from the host MCU
Microcontroller can be accessed through separate IDC connector
Ready-to-use examples save development time

Don't forget

However powerful, Matrix RGB click is only a driver board, and you need to have one or more RGB panels and a power adapter to see the output. Make sure you add them to your cart along side with the click.

MIKROE-2239
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