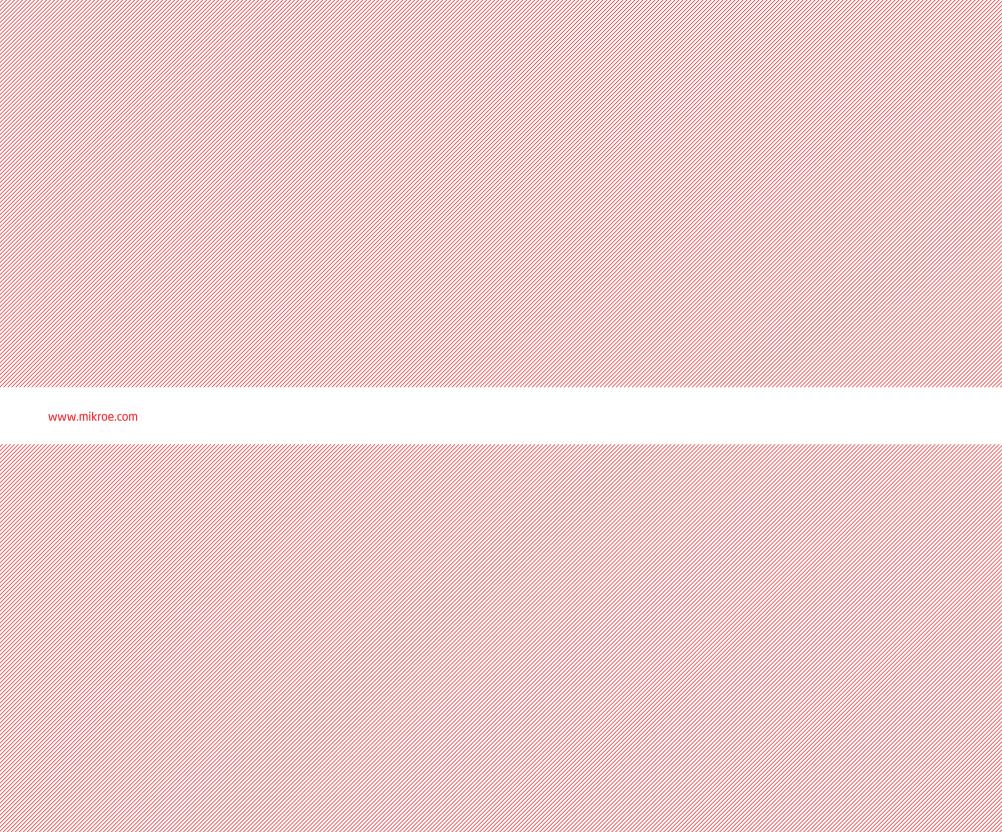
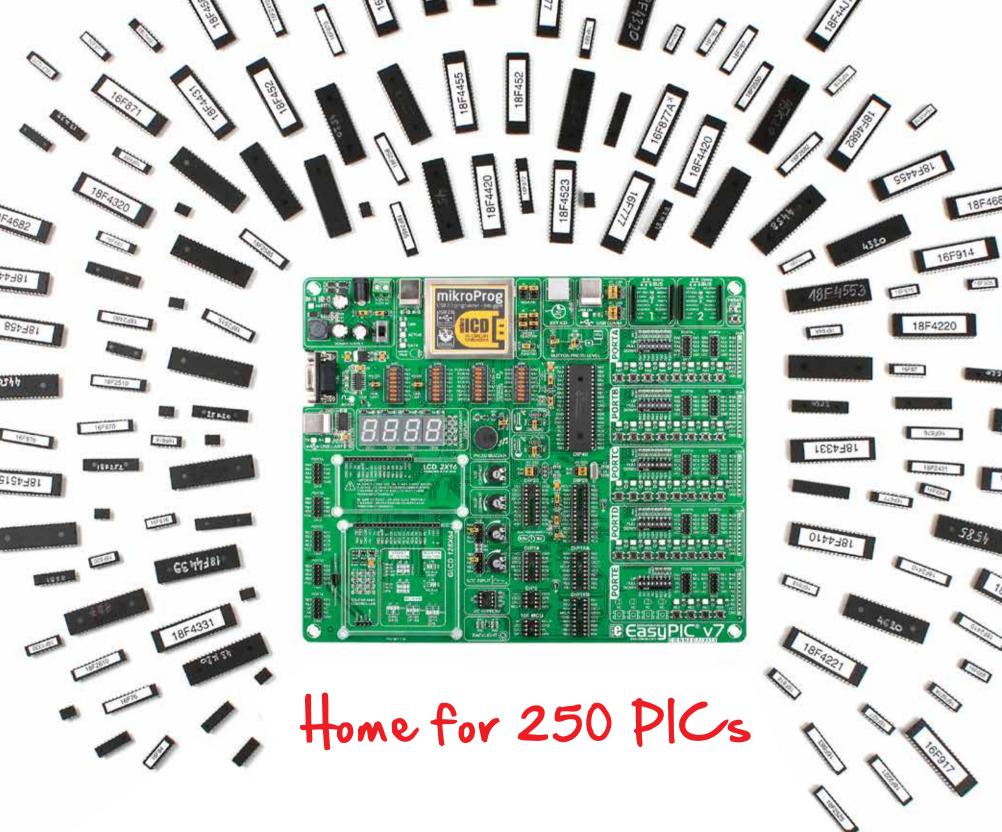
# development solutions









Visual TFT™

and Visual GLCD™ software

GUI design made easy

MIKROE-1418

mikroC<sup>™</sup>, mikroBasic<sup>™</sup> and mikroPascal™ PRO for dsPIC®/PIC24® compilers

\$199° mikroC roBASIC COPASCAL or dsPIC PRO for dsPIC COMPILER COMPILER COMPILER MIKROE-744 MIKROE-724 MIKROE-734

mikroProg<sup>TM</sup> for PIC®, dsPIC® and PIC32® programmer & debugger

### development solution

Full set of development tools, compilers and debuggers for low power and peripheral-rich dsPIC30/33® and PIC24® devices from Microchip®.

MIKROE-1153

**dsPIC**®

sual GLCD

SOFTWARE

MIKROE-790

IDC10 and Click™ add-on boards

#### EasyPIC™ Fusion v7

A full-featured development board for Microchip dsPIC33®, PIC24® and PIC32® microcontrollers

MIKROE-1205

mikromedia<sup>™</sup> for PIC24®. dsPIC33®, PIC24EP® and dsPIC33EP®

MIKROE-764

\$99⁰

#### EasyPICv7 for dsPIC30®

Development board for Microchip® dsPIC30F® devices in DIP packaging



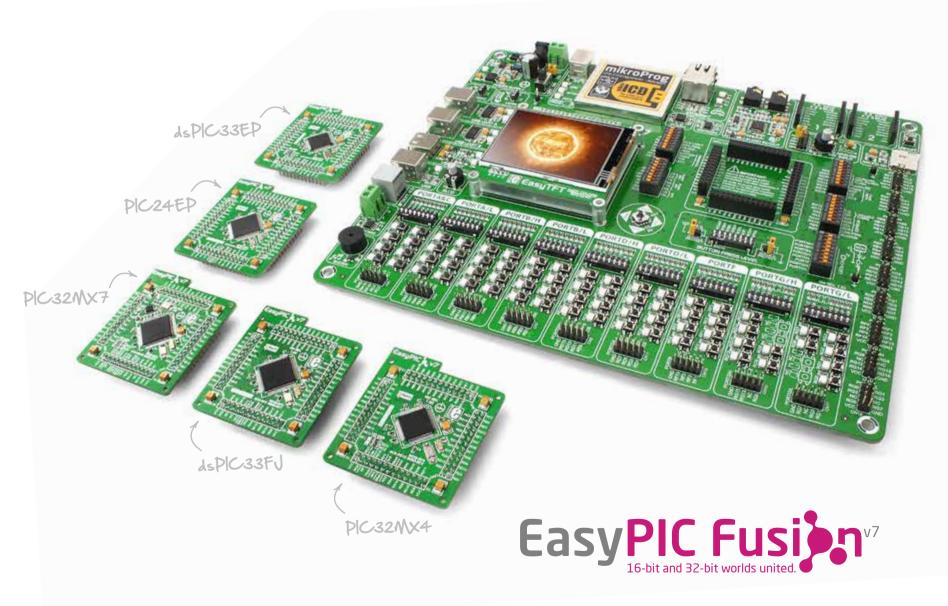


NOMINATED FOR

### embedded AWARD 2013

In the Best Tools Category







mikroC<sup>™</sup>, mikroBasic<sup>™</sup> and mikroPascal™ PRO for ARM® compilers



mikroProg<sup>™</sup> for Stellaris®

and mikroProg® for STM32®

programmers & debuggers

Stellaris® - MIKROE-1031 STM32® - MIKROE-1100

Visual TFT™

and Visual GLCD™ software



development solution

Complete development toolchain for ARM Cortex-M3 and Cortex-M4 MCUs. including Compilers, Development Boards, Programmer / Debugger.

MIKROE-972

MIKROE-1099



mikromedia<sup>™</sup> for Stellaris® M3, STM32 M3 and STM32 M4

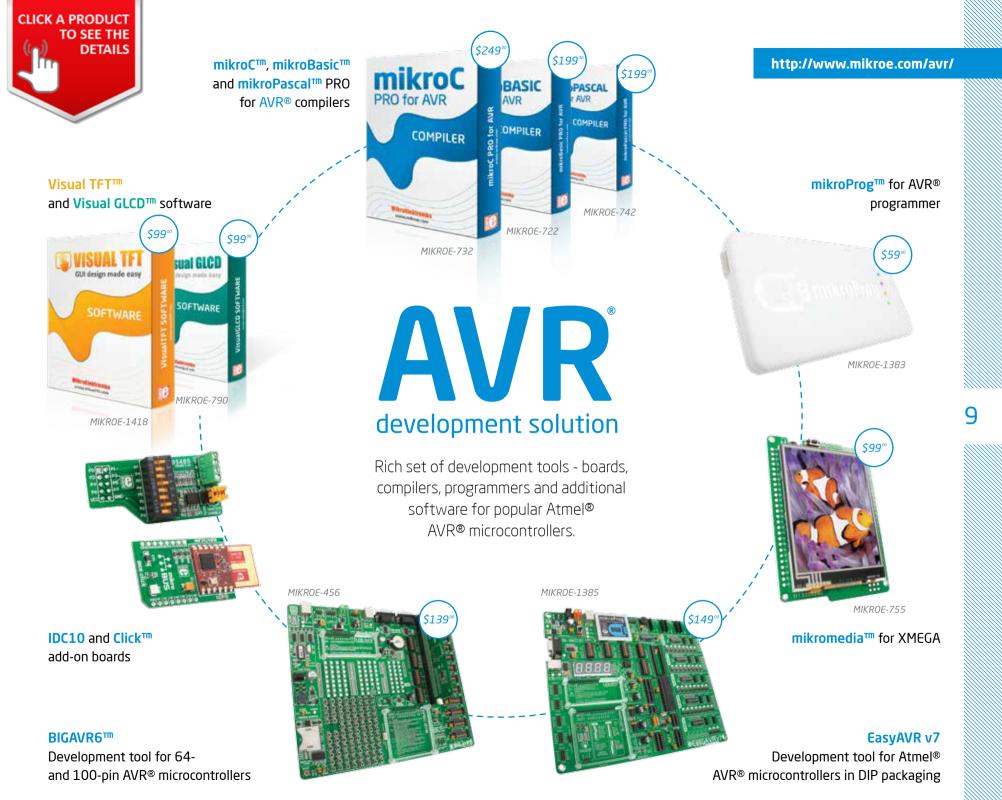
EasyMx PRO™ v7 for Stellaris™

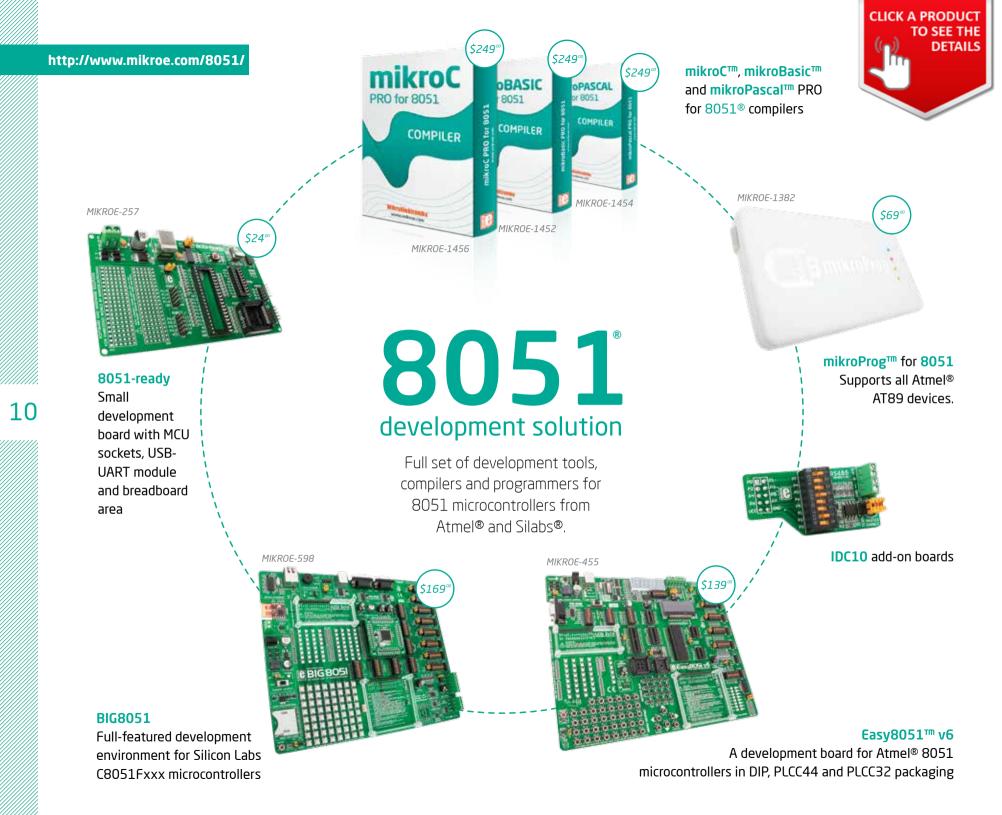
IDC10 and Click™

add-on boards

Development board for TI Stellaris® ARM® Cortex<sup>™</sup>-M3 and Cortex<sup>™</sup>-M4 devices EasyMx PRO™ v7 STM32

Development board for STM32® ARM® Cortex<sup>™</sup>-M3 and Cortex<sup>™</sup>-M4 devices







### **TEXAS INSTRUMENTS**

# ASLK PRO

Learn analog with ease

Depictive board markings

Long lasting quality

Manuals that teach



The best tool for students



Everything is already here



Built from the best components



14 exercises and examples

Analog System Lab Kit PRO is designed for undergraduate engineering students to perform analog lab experiments. The main idea with ASLK PRO is to provide a cost efficient platform or test bed for students to develop almost any analog system using general purpose ICs

 $11\ \text{sections}$  on the board for  $14\ \text{fantastic}$  experiments

such as OP-Amps and analog multipliers.

#### **Everything that an engineer needs**

ASLK PRO comes with three general-purpose operational amplifiers (TL082) and three wide-bandwidth precision analog multipliers (MPY634) from Texas Instruments. We have also included two 12-bit parallel-input multiplying digital-to-analog converters DAC7821, a wide-input non-synchronous buck-type DC/DC controller TPS40200, and a low dropout regulator TPS7250 from Texas Instruments. A portion of ASLK PRO is left for general-purpose prototyping and carrying out mini-projects.

MIKROE-957

Analog System
Lab Kit PRO

from Texas Instruments, produced by mikroElektronika





# mikromedia+





#### for PIC32MX7

Develop multimedia rich applications using this amazingly compact all-in one board. It features 4,3" TFT Touch Screen and over 20 on-board modules connected to a high-performance PIC32MX7®. It's delivered with a set of fun demonstration examples.



#### for Stellaris ARM

A large 4,3" TFT Touch Screen and over 20 on-board modules connected to a high-performance Stellaris® ARM® Cortex™-M4 microcontroller with on-chip FPU and DSP. They make a perfect choice for your demanding ideas.



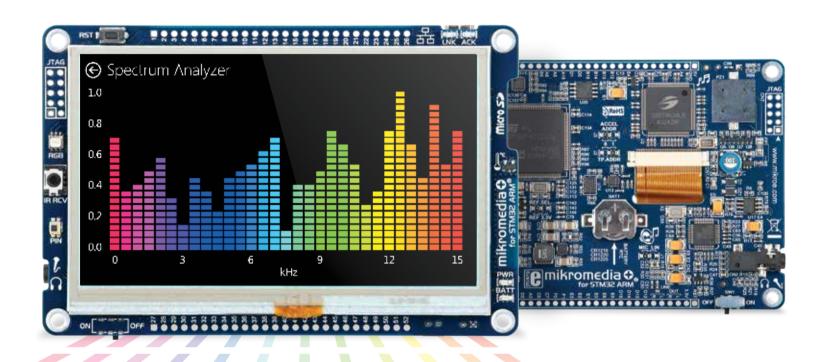
#### for STM32 ARM

Smart TFT Touch Screen device or a multimedia development board it's up to you. It carries a powerful STM32F407ZGT6 ARM Cortex-M4 MCU and loads of on-board modules, making it a perfect choice for your projects.

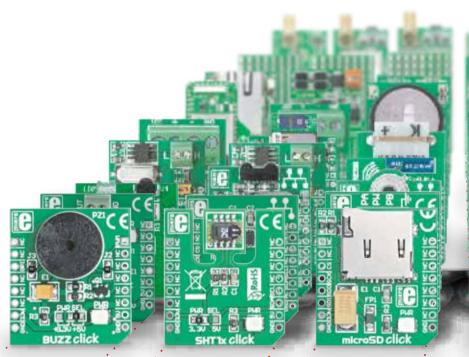


# Ever Tried 168MHz

on a microcontroller?

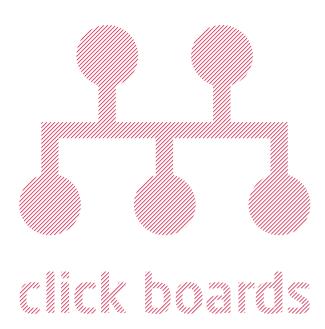


mikromedia + for STM32





# ARMY OF CLICKS



### one socket





for ALL boards

Just place the Click<sup>TM</sup> board you need into the innovative new mikroBUS<sup>TM</sup> host socket and it's ready to work right away. Adding new functionality to your development board was never so easy!







**DAC** click



LigtHz click



**EXPAND** click



Flash click



**DIGI POT click** 



IrDA2 click



**BUZZ** click



microSD click



**RTC** click



RTC2 click



**EEPROM** click



**THERMO** click



MP3 click



Opto click



**CAN SPI click** 



**CAN SPI click 3.3V** 



**BEE** click



















RS485 click 5V

**RS485 click 3.3V** 

**Accel click Gyro click** 













4-20mA T click

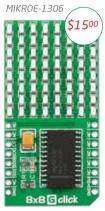
4-20mA R click

**ETH click** 

**GPS** click

GPS click - L10

**GPS2** click



8x8 G click 8x8 R click













8x8 B click

nRF C click

nRF T click

**DALI click** 



**Compass click** 



SHT1x click



IR click



IrThermo click 3.3V



IrThermo click 5V



BlueTooth click



Bluetooth2 click



**OSD** click



**RELAY click** 





**GSM2** click



**FM** click



**EVE** click



BarGraph click



**FTDI** click







**Pressure click** 



Light click



Altitude click



Thunder click

\$3400

5831351

\$1500



MIKROE-1506

MIKROE-1438 MIKROE-1445

MIKROE-1435

Fiber Opt click 3.3V

Fiber Opt click 5V

FRAM click

**Joystick click** 

**Proximity click** 

**Color click** 

ccRF click



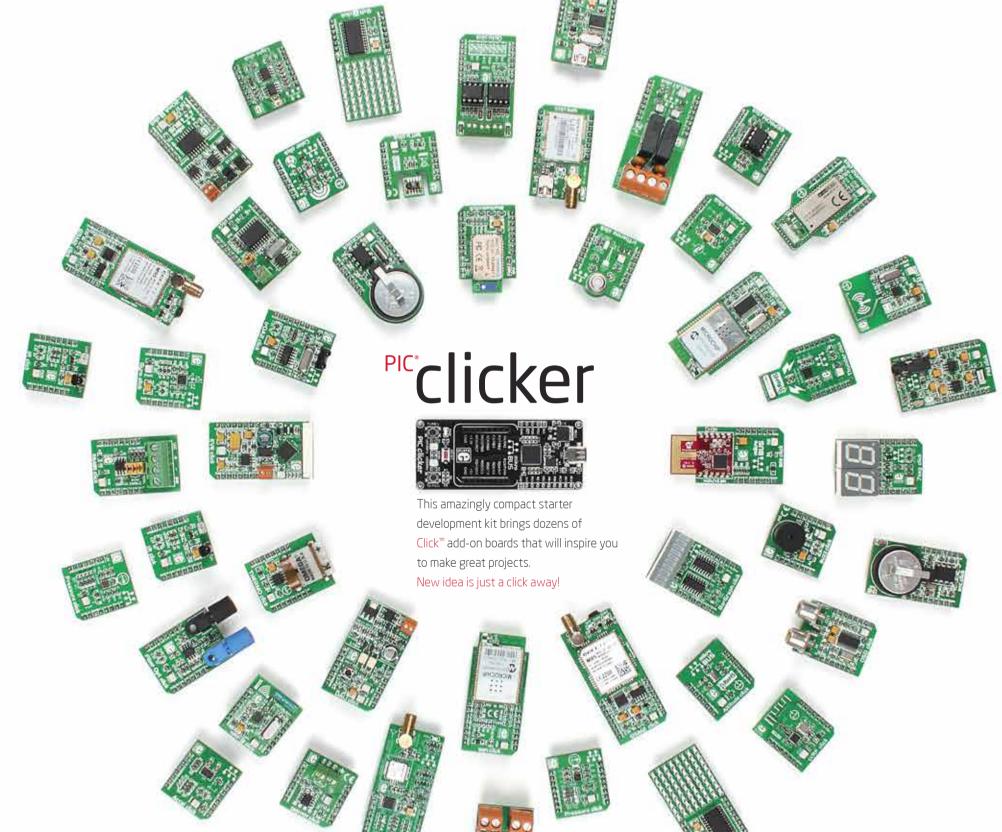
click USB adapter



CapSense click



**PIC clicker** 







# mikromedia boards



mikromedia for PIC32 (features PIC32MX460F512L)

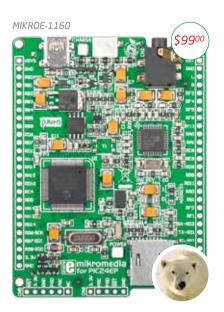
#### Swiss Army Knives for Multimedia Developers

Create control interfaces, run multimedia content, play games, and even movies with fantastic mikromedia boards. They are barely bigger than the size of the TFT display, but are capable of supporting rich multimedia content. Mikromedia boards feature following modules:

- 320x 240 TFT with Touch Panel
- MP3 codec
- Accelerometer
- microSD card slot

- Serial Flash Memory
- USB or USB UART
- Programmer connectors
- Battery Charger with battery connector

Each mikromedia is preprogrammed with bootloader and supported in mikroElektronika compilers and Visual TFT software. They support additional shields, such as: mikroBUS, PROTO, Gaming, Connect or Battery Boost Shield.



mikromedia for PIC24EP (features PIC24EP512GU810)



mikromedia for dsPIC33EP (features dsPIC33FJ256GP710A)



mikromedia for dsPIC33 (features dsPIC33FJ256GP710A)



mikromedia for STM32 (features STM32F207VGT6 or STM32F407VGT6)



mikromedia for Stellaris M3 (features LM3S9B95)



mikromedia for XMEGA (features ATXMEGA128A1)



mikromedia for PIC18FJ (features PIC18F87J50)



mikromedia for PIC24 (features PIC24FJ256GB110)

# mikromedia accessories



We have prepared a set of extension boards pincompatible with your mikromedia, which enable you to easily expand your board basic functionality. We call them mikromedia shields.

MIKROE-1154



mikroBUS Shield - \$750



Battery BOOST Shield - \$1400

MIKROE-767



PROTO Shield - \$690

MIKROE-938



Connect Shield - \$1600



# Get the MAX with the MINI®

Replace your DIP40 MCU with a pin-compatible MINI board and get up to 40x better performance!

Keep everything you love about 8-bit MCUs in DIP40 packaging and get up to 40x better performance. Our powerful MINI boards are pin compatible with PIC18F45K2x making them a perfect excuse to smoothly switch to 32-bit. Get used to having plenty of available memory and lots of processing power. Each MINI comes preloaded with a fast USB HID bootloader, so programming is as easy as it gets. Try it out for \$29 only.

slow



25x 📆





40x





MIKROε-911 **PIC18F45K22** 



MINI-M4 for Stellaris

contains LX4F230H5QR (ARM® Cortex<sup>™</sup>-M4)



MINI-32

contains PIC32MX534F064H

MIKROE-763



MIKROE-1367

MINI-M4 for STM32

contains STM32F415RG (ARM® Cortex<sup>™</sup>-M4)







#### You Design - We Create Code

Just focus on designing your TFT user interface, and the software will make sure to create microcontroller code for you automatically.

#### **Intuitive Drag-n-Drop Interface**

Visual TFT is really easy to use. It implements standard intuitive behavior, so you will feel like using any other vector graphic editors.

#### SingleClick<sup>™</sup> settings

With dozens of hardware templates, a single click on a dropdown list item does all the settings for you. Time spent: 5 seconds per project.

#### **FT800/EVE Controller Supported**

Visual TFT is the first software in the world that supports FTDI's powerful new EVE GUI platform, and it's rich set of features.



VISUAL TFT IS A STANDALONE
APPLICATION USED FOR RAPID
DEVELOPMENT OF GRAPHICAL
USER INTERFACES FOR TFT
DISPLAYS.



SOFTWARE GENERATES CODE
COMPATIBLE WITH MIKROC,
MIKROBASIC AND MIKROPASCAL
COMPILERS FOR ALL SUPORTED
MCU ARCHITECTURES.



VISUAL TFT SUPPORTS MORE
THAN 10 POPULAR DISPLAY
CONTROLLERS AND 5 DIFFERENT DISPLAY SIZES. PICK THE
BEST ONE FOR YOUR PROJECT.



WE MADE SURE TO PROVIDE

MANY INTERESTING EXAMPLES

AND A COMPREHENSIVE HELP

FILE THAT WILL HELP YOU TO

GET STARTED QUICKLY.





#### Free upgrades

Software is constantly improved and new funcionalities are added with each new release. Owners of Visual TFT licenses are entitled to free upgrades, which takes just a minute of your time.



#### Free Support

Visual TFT license guarantees you free product lifetime technical support, so you can rely on our help when developing.



#### Best price/performance

With Visual TFT you get full-featured and powerful GUI development tool, and at the same time very intuitive and easy-to-use. No other software offers so much at such a price.

## Meet EVE





EVE click \$3900

## Five star graphics even on 8-bit MCUs

We are proud to be the first manufacturer in the world to release two boards for FTDI Chip's cutting-edge FT800/EVE graphics controller. We call them ConnectEVE and EVE click. ConnectEVE brings fast and visually stunning user interfaces to your devices. It's state-of-the-art FT800Q graphics controller integrates display, audio and touch onto a low cost, easy-to-use, single-chip solution. Twelve components (widgets) natively supported by FT800Q chip, transparency support, anti-aliasing and other features will make your designs shine. EVE Click features FT800Q graphics controller and additional modules all packed in mikroBUS<sup>TM</sup> form factor. It communicates with a microcontroller over SPI interface (up to 30 MHz). EVE click contains flat cable connector for connecting 4.3" touch screens. Now even 8-bit MCUs can run GUI devices without worrying about performance. FT800 easily handles 4.3" touch screen with 480x272px resolution. We provide free FT800 library for all of our mikroC, mikroBasic and mikroPascal compilers.

http://www.mikroe.com/forum/

### **FORUM**

Over **29.500 members**, **205.000 posts** and resourceful topics with solutions and code snippets make our forum a great place for embedded developers.

http://www.libstock.com/

### LIBSTOCK®

**Libstock** is a free community website for sharing and downloading code: projects, libraries and examples. It hosts some of mikroElektronika exclusive libraries, like USB Device Library, Network Ethernet Library, WiFi Library, FAT32 library, but among **670 projects** you can find PID, Modbus and many other libraries as well.

facebook.com/mikroElektronika

### SOCIAL NETWORKS

mikroElektronika community members are very active on social networks. We often discuss interesting topics on **Facebook** and **Twitter**. Our **YouTube** and **Vimeo** channels contain video demonstration and tutorials on interesting projects. Make sure to check them out:

- facebook.com/mikroElektronika/

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- g plus.google.com/+mikroElektronika/
- youtube.com/mikroelektronika/
- vimeo.com/mikroelektronika/
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-card format (MMC/SD only)

1

project contains

[learn more]

EXA HLP HEX

#### 36

### ABOUT MIKROELEKTRONIKA

For more than a decade MikroElektronika has been one of few companies in the world that produce entire development toolchains for all major microcontroller architectures. We make development boards, compilers, add-on boards, additional software and books for microcontrollers.

MikroElektronika was grounded on a simple idea. We want to provide software and hardware tools which save time of our fellow engineers and help them to get the job done quickly. We want to make electronics understandable, to bring it to ordinary people and help them improve their lives. On that journey we developed devices that are sophisticated, powerful, beautifully designed and what is most important - easy to use. We're making it easy for hobbyists and enthusiasts, but all this combined power and elegance draws a lot of professionals as well. Many professional users and well known companies are using our products. Right now we have 48% sales to companies and small businesses, around 27% to universities and high schools while the rest goes to individuals and hobbyists.

We have a passion for quality. We do what we love and love what we do. Each product is well thought of, and is always a part of the bigger picture where the user is the center of attention.

E-mail to: office@mikroe.com

Our business hours are from 9 until 17, Central European Time, Monday through Friday. For offline contact, please reach us via:



Address

Phone

Fax

MikroElektronika Batajnički drum 23 11186 Belgrade

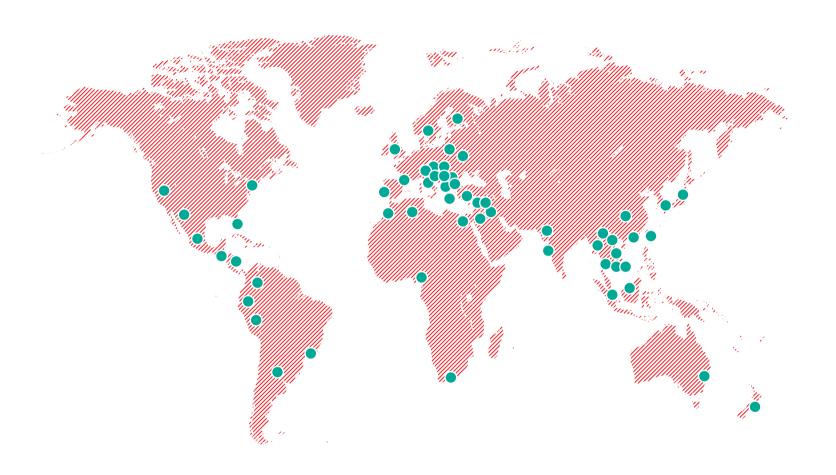
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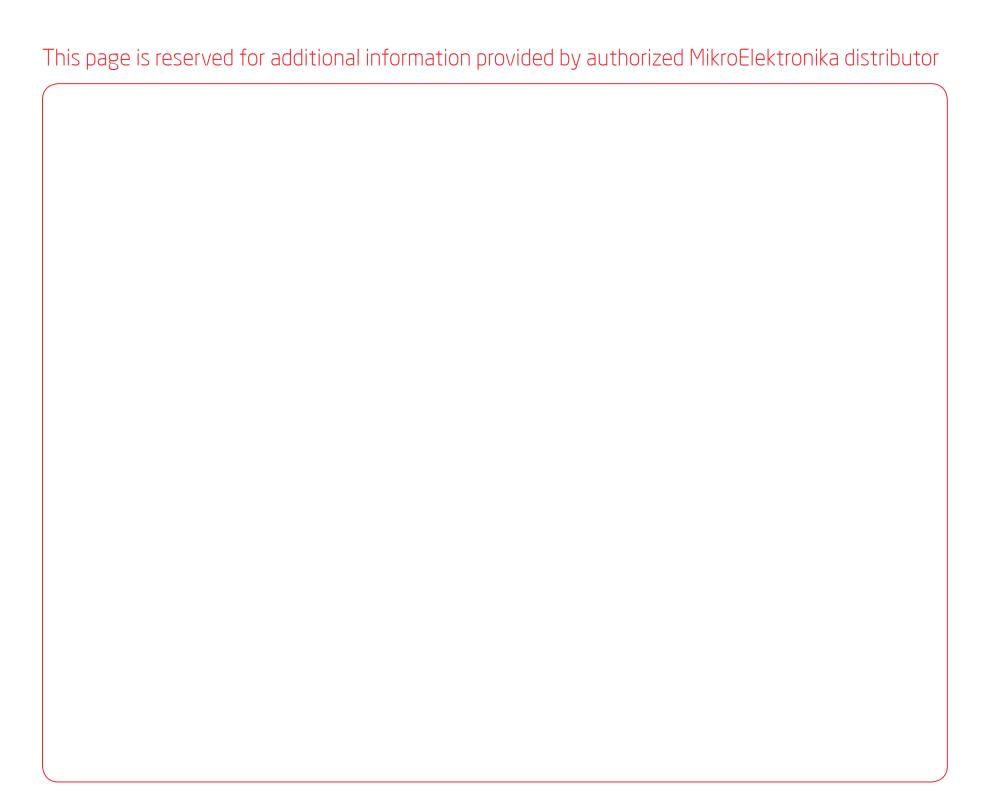
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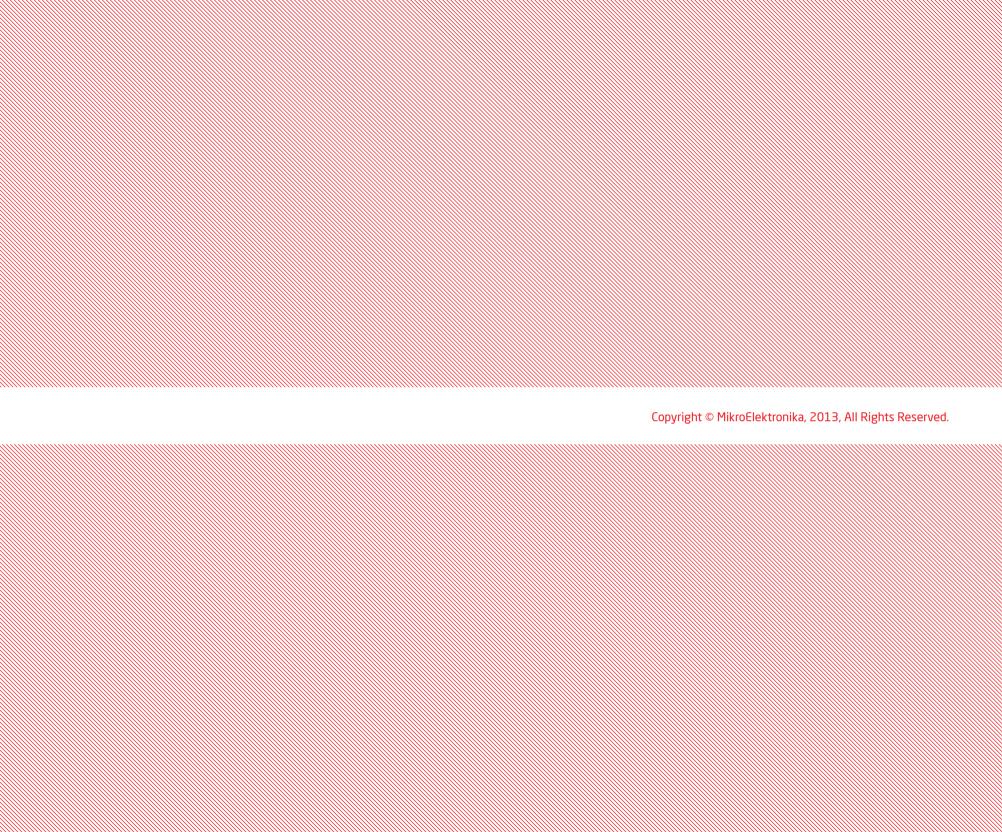




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http://www.mikroe.com/distributors/





# development solutions

Designed by
MikroElektronika Ltd.
www.mikroe.com
December 2013.



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Largest Supplier of Electrical and Electronic Components

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