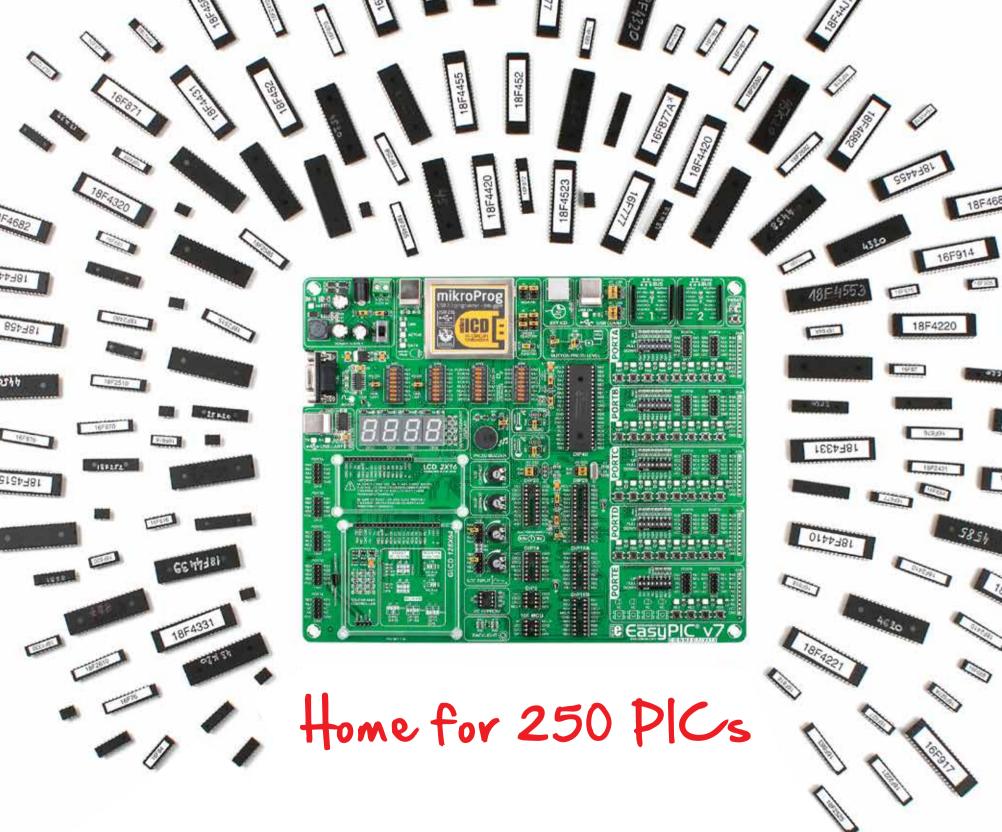
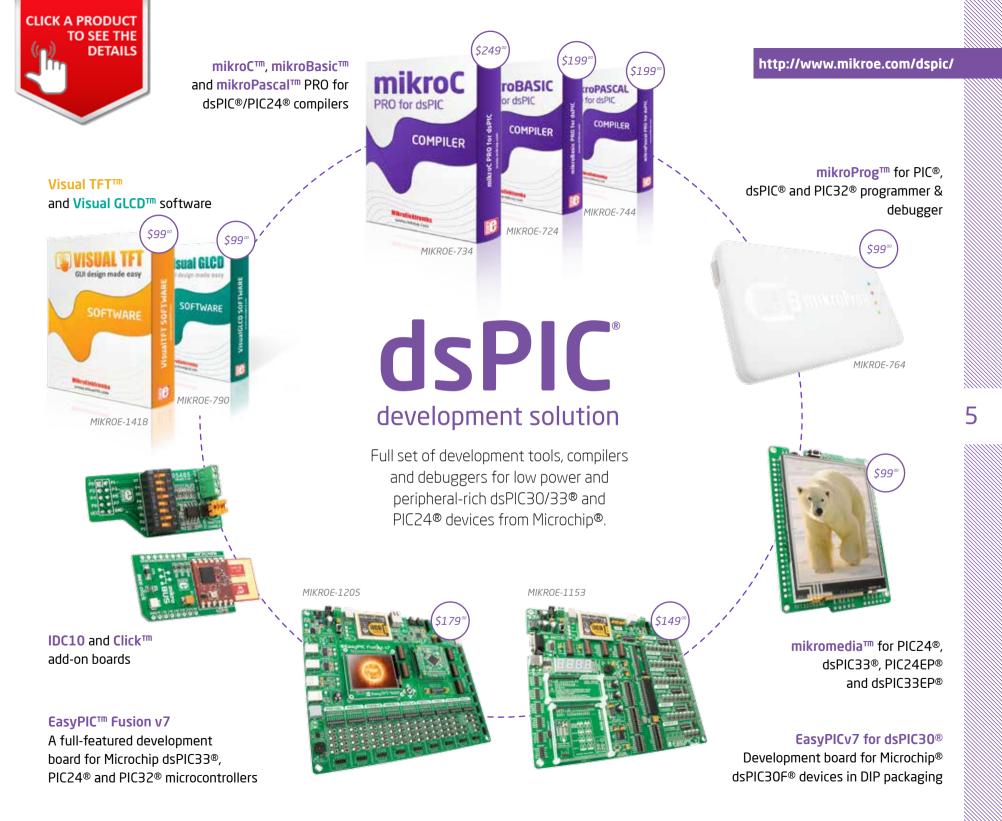




www.mikroe.com







Visual TFT<sup>™</sup> and Visual GLCD<sup>™</sup> software





**IDC10** and **Click**<sup>™</sup> add-on boards

## EasyPIC<sup>™</sup> Fusion v7

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



# PIC32<sup>®</sup> development solution

Full set of development tools, compilers and debuggers for high-performance and peripheral-rich PIC32® microcontrollers from Microchip®.





MIKROE-596

mikroC<sup>TM</sup>, mikroBasic<sup>TM</sup> and mikroPascal<sup>TM</sup> PRO for PIC32<sup>®</sup> compilers



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



mikromedia<sup>™</sup> for PIC32®

## multimedia for PIC32MX7 Platform for multimedia development on a powerful PIC32MX795F512L.

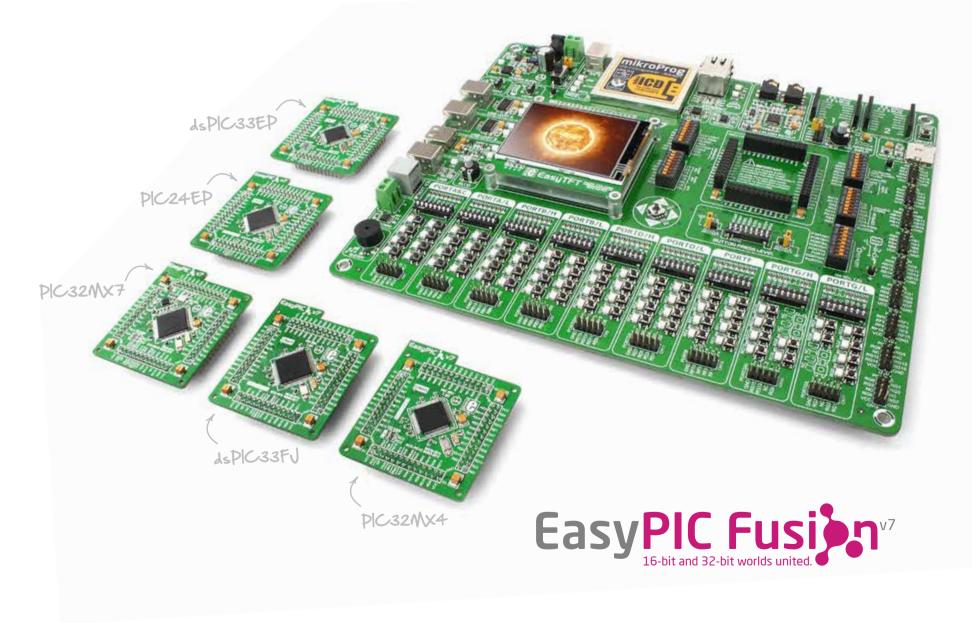
Board features 320x240px TFT Touch Screen





# NOMINATED FOR embedded AWARD 2013

In the Best Tools Category









IDC10 and Click<sup>™</sup> add-on boards

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



**ARM** development solution

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



MIKROE-1099 \$169"

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



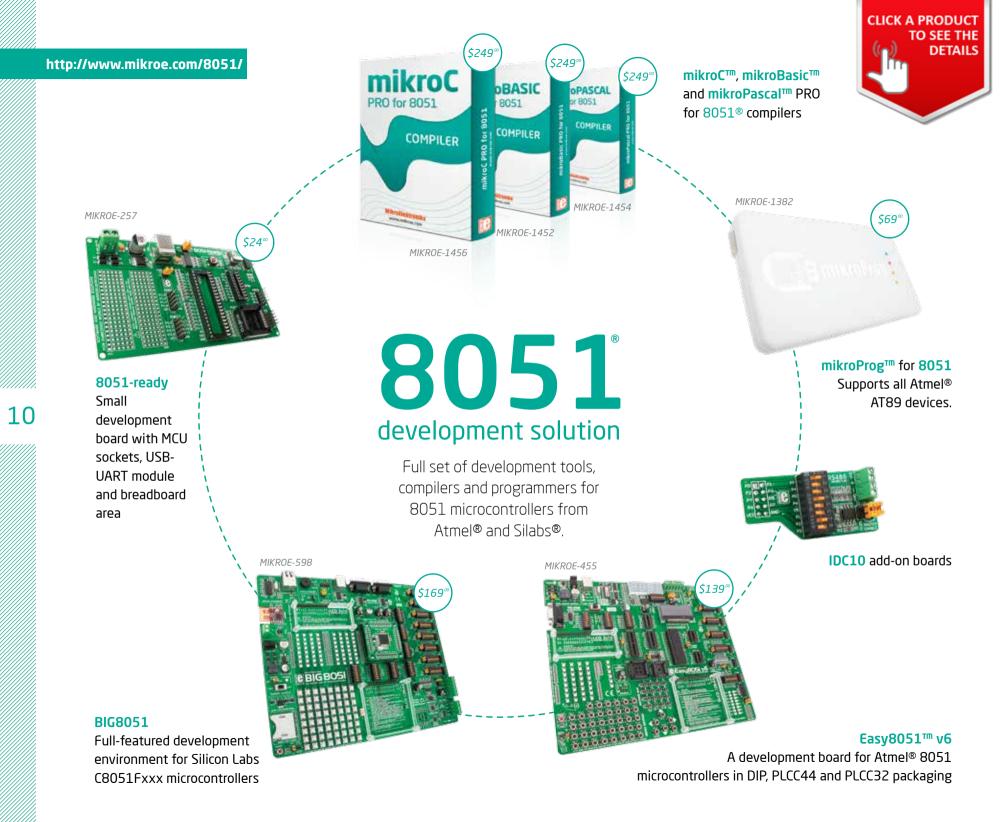
mikroProg<sup>™</sup> for Stellaris<sup>®</sup> and mikroProg<sup>®</sup> for STM32<sup>®</sup> programmers & debuggers



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

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

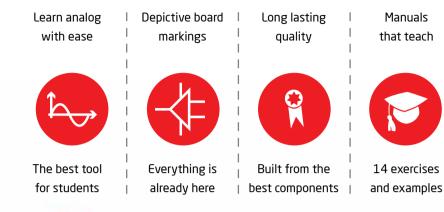




http://www.mikroe.com/aslk-pro/

# TEXAS INSTRUMENTS

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 such as OP-Amps and analog multipliers.



## 11 sections on the board for 14 fantastic experiments **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

CLICK A PRODUCT TO SEE THE

Analog System Lab Kit PRO from Texas Instruments, produced by mikroElektronika





http://www.mikroe.com/mikromedia/plus/





# 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<sup>®</sup>. 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<sup>TM</sup>-M4 microcontroller with on-chip FPU and DSP. They make a perfect choice for your demanding ideas.



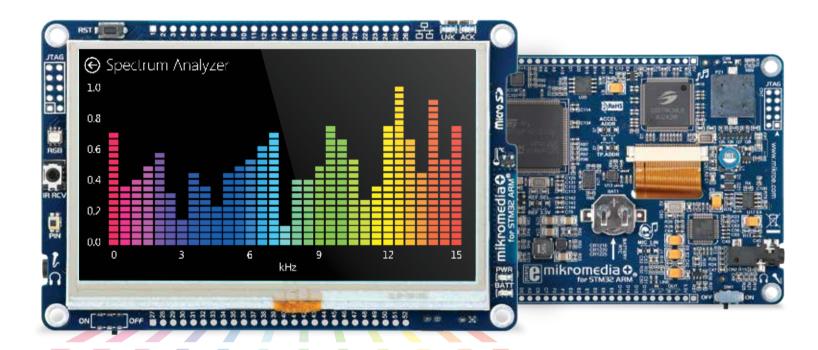
# for STM32 ARM

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.

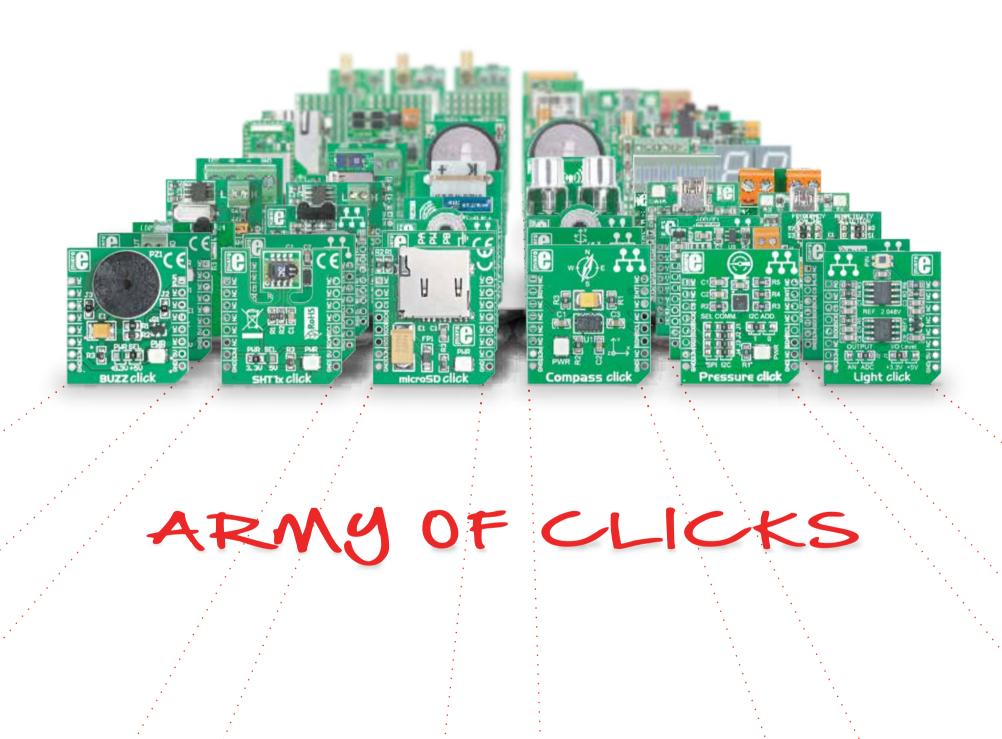
# Ever Tried 168MHz on a microcontroller?

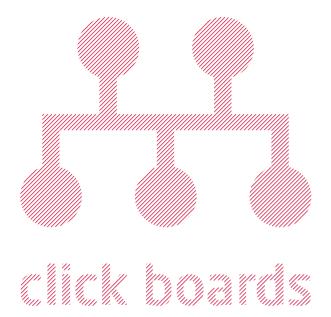
CLICK A PRODUCT

DETAILS



# mikromedia + for STM32





опе соскет





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





MIKROE-950 \$1800

**DAC click** 





**EXPAND click** 



**Flash click** 

MIKROE-1200

**EEPROM click** 

e





IrDA2 click

MIKROE-946



**BUZZ click** 



microSD click





**RTC2** click

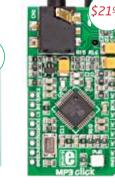


**BEE click** 

MIKROE-1197



**THERMO click** 



MP3 click



## **Opto click**



**CAN SPI click** 

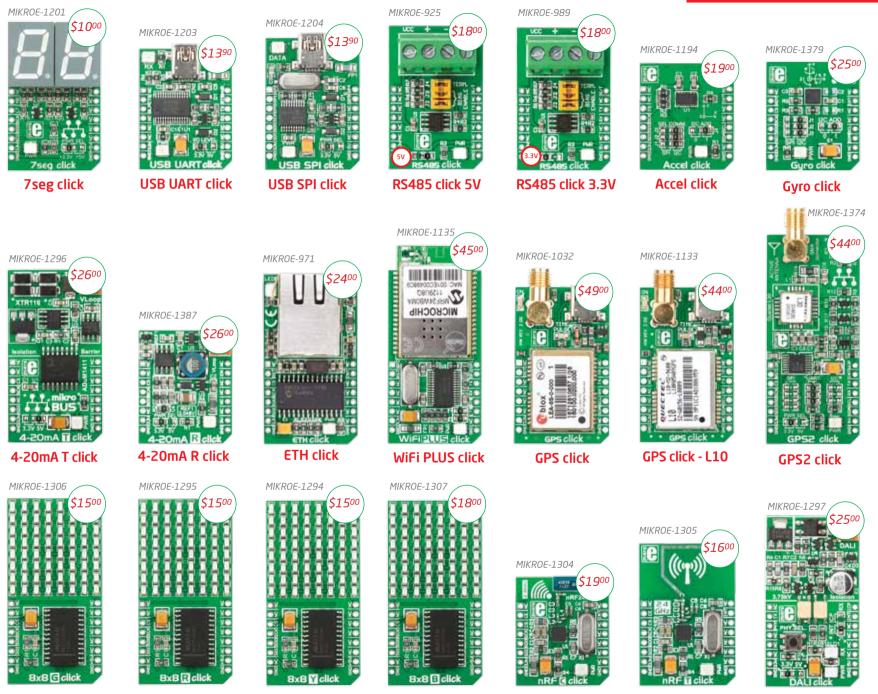


CAN SPI click 3.3V



\$800

### http://www.mikroe.com/click/



8x8 G click

8x8 R click

8x8 Y click

### 8x8 B click

**nRF C click** 

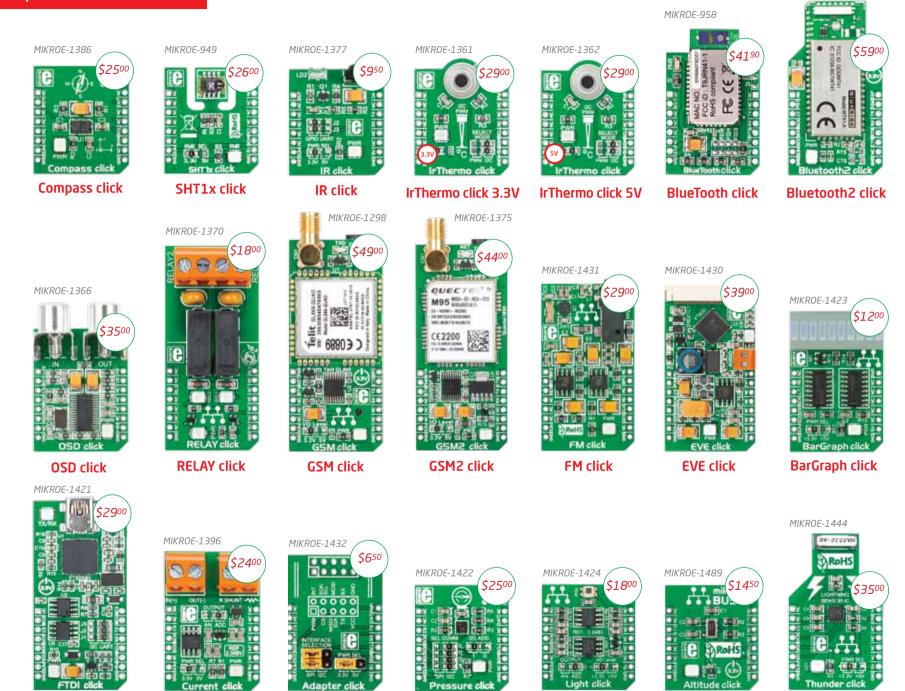


19

**DALI click** 

### http://www.mikroe.com/click/

MIKROE-1389



Pressure click

**Light click** 

**Altitude click** 

**Thunder click** 

FTDI click

**Current click** 

**Adapter click** 

MIKROE-1436

MIKROE-1470

\$3400



Fiber Opt click 3.3V



click USB adapter



Fiber Opt click 5V



FRAM click

MIKROE-1487 **\$19**00

PIC clicker **PIC clicker** 

5431351 \$2200 31

MIKROE-1506

999999



Joystick click







http://www.mikroe.com/click/

**Proximity click** 

**Color click** 

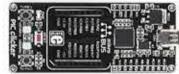
ccRF click





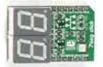


# <sup>PIC</sup> clicker



This amazingly compact starter development kit brings dozens of Click<sup>m</sup> add-on boards that will inspire you to make great projects. New idea is just a click away!







# 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.

## http://www.mikroe.com/mikromedia/

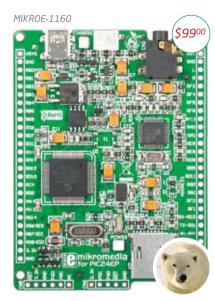
MIKROE-1101 / MIKROE-1102



mikromedia for STM32 (features STM32F207VGT6 or STM32F407VGT6)



mikromedia for PIC24 (features PIC24FJ256GB110)



mikromedia for PIC24EP (features PIC24EP512GU810)



mikromedia for Stellaris M3 (features LM3S9B95)



MIKROE-606

MIKROE-1159

mikromedia for dsPIC33EP (features dsPIC33FJ256GP710A)



mikromedia for XMEGA (features ATXMEGA128A1)



mikromedia for dsPIC33

(features dsPIC33FJ256GP710A)

mikromedia for PIC18F (features PIC18F87J50)

# mikromedia accessories

CLICK A PRODUCT TO SEE THE DETAILS

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-712





mikroBUS Shield - \$750

MIKROE-767



PROTO Shield - \$690



Battery BOOST Shield - \$1400

MIKROE-938



Connect Shield - \$1600



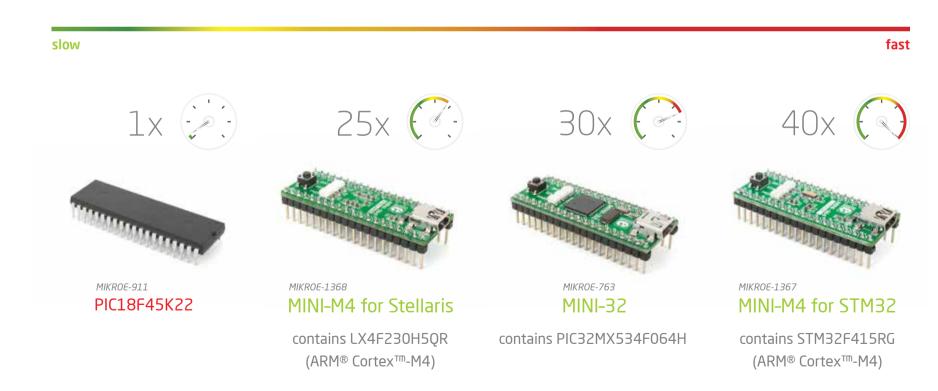
Scan QR code to see mikromedia Gaming Shield library

mikromedia Gaming Shield - \$1800 MIKROE-782

http://www.mikroe.com/mini/

# 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.





http://www.mikroe.com/visualtft/





### You Design - We Create Code

30

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 DIFFER-ENT 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



MIKROE-1430



EVE click \$39<sup>00</sup>

# 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" touchscreens. 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.



# FREE SUPPORT

MikroElektronika offers Free Tech Support, so if something goes wrong, we will be ready and willing to help!

### 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:

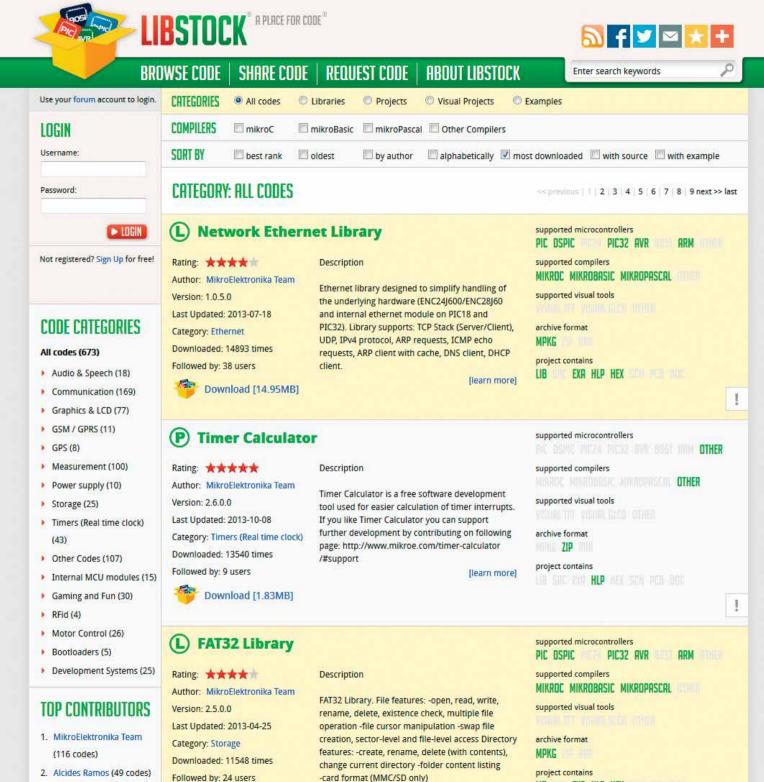


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# ABOUT MIKROELEKTRONIKA

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.

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

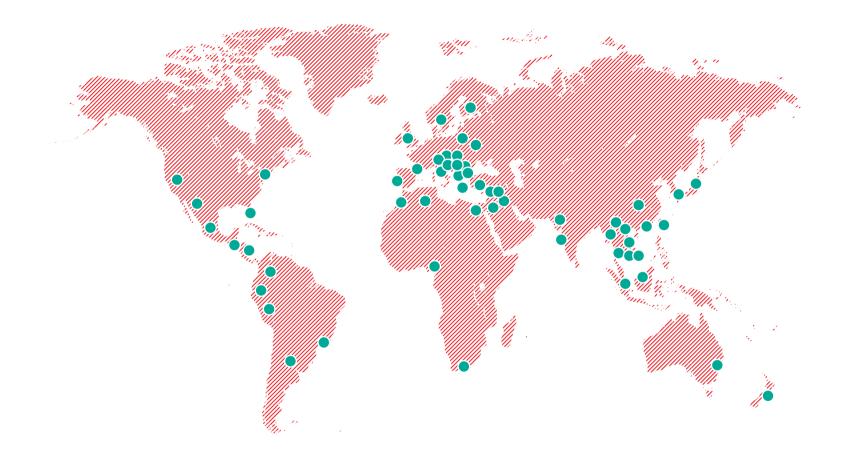


Address Phone Fax MikroElektronika + 381 11 78 57 600 + 381 11 78 57 600 Batajnički drum 23 11186 Belgrade Address Code: 201044 EUROPE

http://www.mikroe.com/about/

E-mail to: office@mikroe.com

# OUR WORLDWIDE DISTRIBUTION MAP





MikroElektronika supplies the entire world with first-class embedded solutions. Find our products with more than 60 distributors worldwide. Choose the one closest to you. Full distributors list and contact information can be found at our webpage:

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

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# development solutions

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



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