development solutions
| CONTENT: | 5 | PIC development solution | 19 | mikromedia Plus |
|         | 6 | dsPIC development solution | 21 | mikromedia 5 |
|         | 7 | PIC32 development solution | 23 | MINI boards |
|         | 9 | AVR development solution | 27 | Click boards |
|         | 10 | Tiva development solution | 33 | Visual TFT |
|         | 11 | STM32 development solution | 36 | Meet EVE |
|         | 12 | 8051 development solution | 37 | Community |
|         | 13 | ASLK PRO | 40 | About MikroElektronika |
|         | 15 | mikromedia boards | 45 | Distribution Map |
|         | 18 | mikromedia accessories |
Home for 250 PICs
Rich set of development tools for Microchip® PIC® MCUs, including C, Basic and Pascal Compilers, Development Boards, Programmers / Debuggers and more.

**EasyPIC PRO v7**
A full-featured development board for high pin-count 8-bit PIC® microcontrollers

**EasyPIC™ v7**
Top seller PIC® Development Board for 250 Microchip PIC® MCUs in DIP packaging

**mikroC**, **mikroBasic**™ and **mikroPascal**™ PRO for PIC® compilers

**mikroProg**™ for PIC®, dsPIC® and PIC32® programmer & debugger

**Visual TFT**™ and **Visual GLCD**™ software

**Click™** boards

**Visual TFT**™

**MIKROE-1418**

**MIKROE-1487**

**MIKROE-995**

**MIKROE-736**

**MIKROE-726**

**MIKROE-746**

**MIKROE-764**

**MIKROE-607**

**MIKROE-790**

**MIKROE-798**

**MIKROE-764**

**MIKROE-1487**

**MIKROE-995**

**MIKROE-798**

**MIKROE-790**

**MIKROE-726**

**MIKROE-746**

**MIKROE-764**

**MIKROE-607**

**MIKROE-798**

**MIKROE-790**

**MIKROE-726**

**MIKROE-746**
dsPIC® development solution

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

- mikroC™, mikroBasic™ and mikroPascal™ PRO for dsPIC*/PIC24® compilers
- mikroProg™ for PIC®, dsPIC® and PIC32® programmer & debugger
- Visual TFT™ and Visual GLCD™ software
- Click™ boards
- MIKROE-1205, EasyPIC™ Fusion v7 for Microchip dsPIC33®, PIC24® and PIC32® microcontrollers
- MIKROE-790, MIKROE-734, MIKROE-1418, MIKROE-1153, MIKROE-724
- MIKROE-764, mikromedia™ for PIC24®, dsPIC33®, PIC24EP® and dsPIC33EP®
- MIKROE-790, MIKROE-734, MIKROE-1418, MIKROE-1153, MIKROE-724
- MIKROE-764, mikroPascal™ PRO for dsPIC*/PIC24® compilers
- MIKROE-1153, MIKROE-764
- MIKROE-790, MIKROE-734, MIKROE-1418, MIKROE-1153, MIKROE-724
- MIKROE-764, mikroBasic™ for PIC24®, dsPIC33®, PIC24EP® and dsPIC33EP®

http://www.mikroe.com/dspic/
PIC32® development solution

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

mikroC™, mikroBasic™ and mikroPascal™ PRO for PIC32® compilers

Visual TFT™ and Visual GLCD™ software

mikroProg™ for PIC®, dsPIC® and PIC32® programmer & debugger

Click™ boards

MIKROE-1418
MINI™ - 32
MIKROE-764
MIKROE-738
MIKROE-728
MIKROE-748
MIKROE-790
MIKROE-596
MIKROE-597
MIKROE-1398
MIKROE-1205
MIKROE-763
MIKROE-728
MIKROE-748
MIKROE-738
MIKROE-790
MIKROE-596
MIKROE-597
MIKROE-1398
MIKROE-1205

multimedia for PIC32MX7
Features a powerful PIC32MX795F512L

EasyPIC™ Fusion v7
A full-featured development board for Microchip dsPIC33®, PIC24® and PIC32® microcontrollers

miKroElektronik GmbH
http://www.mikroe.com/pic32/
NOMINATED FOR
embedded AWARD 2013
In the Best Tools Category
AVR®
development solution

Rich set of development tools - boards, compilers, programmers and additional software for popular Atmel® AVR® microcontrollers.

mikroC™, mikroBasic™ and mikroPascal™ PRO for AVR® compilers

MIKROE-732 $249
MIKROE-722 $199
MIKROE-742 $199

MIKROE-790 $199
MIKROE-671 $149
MIKROE-1385 $139
MIKROE-456 $59
MIKROE-1383 $18
MIKROE-755 $99
MIKROE-1418 $99

$249
$199
$199
$149
$59
$18
$99
$99
$99

Visual TFT™
and Visual GLCD™ software

Click™ boards

MINI™ – AT

MIKROE-671
MINI™ – AT

MIKROE-790
Visual TFT™ SOFTWARE

MIKROE-1418
Visual GLCD™ SOFTWARE

MIKROE-755
mikromedia™ for XMEGA

MIKROE-456
BIGAVR6™
Development tool for 64- and 100-pin AVR® microcontrollers

EasyAVR v7
Development tool for Atmel® AVR® microcontrollers in DIP packaging

http://www.mikroe.com/avr/
Complete set of TI Tiva™ C Series ARM Cortex-M4 development boards for entire family range of Tiva™ C Series devices.

**Visual TFT™ and Visual GLCD™ software**

**Click™ boards**

**MINI™ - M4 for Stellaris®**

**mikroProg™ for Tiva™**

**mikroC™, mikroBasic™ and mikroPascal™ PRO for ARM® compilers**

**EasyMx PRO™ v7 for Stellaris™** Development board for TI Stellaris® ARM® Cortex™-M3 and Cortex™-M4 devices
STM32 development solution

Complete development toolchain for STM32 ARM® Cortex-M3 and Cortex-M4 MCUs, including Compilers, Development Boards, Programmer / Debugger
8051®
development solution

Full set of development tools, compilers and programmers for 8051 microcontrollers from Atmel® and Silabs®.

8051-ready
Small development board with MCU sockets, USB-UART module and breadboard area

mikroC™, mikroBasic™ and mikroPascal™ PRO for 8051® compilers

mikroProg™
Supports all Atmel® AT89 devices.

Easy8051™ v6
A development board for Atmel® 8051 microcontrollers in DIP, PLCC44 and PLCC32 packaging

MIKROE-257
MICROE-598
BIG8051
Full-featured development environment for Silicon Labs C8051Fxxx microcontrollers

MIKROE-1382
mikroProg™ for 8051
Supports all Atmel® AT89 devices.

MIKROE-1456
MIKROE-1452
MIKROE-1454
MIKROE-598
MIKROE-455
MIKROE-1382
MIKROE-257

http://www.mikroe.com/8051/
ASLK 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.

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.

Everything that an engineer needs

11 sections on the board for 14 fantastic experiments

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

Manuals that teach

Learn analog with ease

Depictive board markings

Long lasting quality

The best tool for students

Everything is already here

Built from the best components

14 exercises and examples

MIKROE-957

$99$
mikromedia
mikromedia boards

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

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.

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.

for PIC32MX7

for Stellaris ARM

for STM32 ARM
mikromedia 5
mikromedia 5

ARM Cortex™-M4F on-board

Powerful Workhorse

Mighty TM4C129xNCZAD rocks: 120 MHz operation, 1 MB of Flash, 256 KB of SRAM, μDMA controller, on-chip LCD controller and a lot more.

Size does matter

5” Touch Screen

Huge touchscreen in 800x480px resolution brings awesome graphics and vivid colors. You’ve never seen such a big display driven just by a microcontroller.

Communicate wirelessly

CC3000 WiFi module

Internet of things - check! Insanely popular CC3000 WiFi module is right here for you. It features easy to use SimpleLink IPv4 TCP/IP stack.

http://www.mikroe.com/mikromedia/5/tiva/
MINIboards
Get the MAX with the MINI

Replace your 8-bit 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 all pin compatible and can be your first venture into the world of 32-bits. 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.

8-bit microcontroller

<table>
<thead>
<tr>
<th>Slow</th>
<th>Fast</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x</td>
<td>25x</td>
</tr>
<tr>
<td>30x</td>
<td>40x</td>
</tr>
</tbody>
</table>

MIKROE-1368
MINI-M4 for Stellaris
contains LX4F230H5QR (ARM® Cortex™-M4)

MIKROE-763
MINI-32
contains PIC32MX534F064H

MIKROE-1367
MINI-M4 for STM32
contains STM32F415RG (ARM® Cortex™-M4)

http://www.mikroe.com/mini/
Ever Tried 168MHz on a microcontroller?

mikromedia+ for STM32
This amazingly compact starter development kit brings dozens of Click™ add-on boards that will inspire you to make great projects.

New idea is just a click away!
click boards
Just place the Click™ 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!
http://www.mikroe.com/click/
Let’s make ✈️

SMS HOME ALARM 2
**GUI Design Software**

**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™ 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 SUPPORTED 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 functionalities 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.
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™ 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” touchscreen 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!

FORUM

Over 30,200 members, 210,000 posts and resourceful topics with solutions and code snippets make our forum a great place for embedded developers.

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 720 projects you can find PID, Modbus and many other libraries as well.

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
twitter.com/mikroel
plus.google.com/+mikroElektronika
youtube.com/mikroelektronika
vimeo.com/mikroelektronika
linkedin.com/company/mikroelektronika
**Timer Calculator**

*Rating:* ★★★★★

*Author:* MikroElektronika Team

*Version:* 2.7.0.0

*Last Updated:* 2013-12-27

*Category:* Timers (Real time clock)

*Downloaded:* 17002 times

*Followed by:* 10 users

*Description:* Timer Calculator is a free software development tool used for easier calculation of timer interrupts. If you like Timer Calculator you can support further development by contributing on following page: http://www.mikroe.com/timer-calculator/#support

*Supported microcontrollers:* PIC, DSPIC, PIC32, AVR, 8051, ARM

*Supported compilers:* MikroC, MikroBasic, MikroPascal

*Supported visual tools:* Visual C++, Visual C👕👕

*Archive format:* ZIP, RAR

*Project contains:* C, C++, H, HEX, S, HLP, PCB, SRC

---

**Network Ethernet Library**

*Rating:* ★★★★★

*Author:* MikroElektronika Team

*Version:* 1.0.6.1

*Last Updated:* 2014-01-22

*Category:* Ethernet

*Downloaded:* 16727 times

*Followed by:* 34 users

*Description:* Ethernet library designed to simplify handling of the underlying hardware (ENC24j600/ENC28j60 and internal ethernet module on PIC18, PIC32, TIVA and STM32). Library supports: TCP Stack (Server/Client), UDP, IPv4 protocol, ARP requests, ICMP echo requests, ARP client with cache, DNS client, DHCP client.

*Supported microcontrollers:* PIC, DSPIC, PIC32, AVR, 8051, ARM

*Supported compilers:* MikroC, MikroBasic, MikroPascal

*Supported visual tools:* Visual C++, Visual C👕👕

*Archive format:* ZIP, RAR

*Project contains:* C, C++, H, HEX, S, HLP, PCB, SRC

---

**FAT32 Library**

*Rating:* ★★★★★

*Author:* MikroElektronika Team

*Version:* 2.5.0.0

*Last Updated:* 2013-04-25

*Category:* Storage

*Downloaded:* 12952 times

*Followed by:* 34 users

*Description:* FAT32 Library. File features: 
- open, read, write, rename, delete, existence check, multiple file operation, file cursor manipulation, swap file creation, sector-level and file-level access Directory features: 
- create, rename, delete (with contents), change current directory, folder content listing in correct format

*Supported microcontrollers:* PIC, DSPIC, PIC32, AVR, 8051, ARM

*Supported compilers:* MikroC, MikroBasic, MikroPascal

*Supported visual tools:* Visual C++, Visual C👕👕

*Archive format:* ZIP, RAR

*Project contains:* C, C++, H, HEX, S, HLP, PCB, SRC
ABOUT MIKROELEKTRONIKA

For more than a decade MikroElektronika has been one of few companies in the world that produces 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 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’s 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 48% of our sales are to companies and small businesses, around 27% to universities and high schools, while the rest goes to individuals (engineers, students, 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 a 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
MikroElektronika
Batajnički drum 23
11186 Belgrade
Address Code: 201044
EUROPE

Phone
+ 381 11 78 57 600

Fax
+381 11 63 09 644

Tech support
+ 381 11 78 57 628
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/
This page is reserved for additional information provided by authorized MikroElektronika distributor