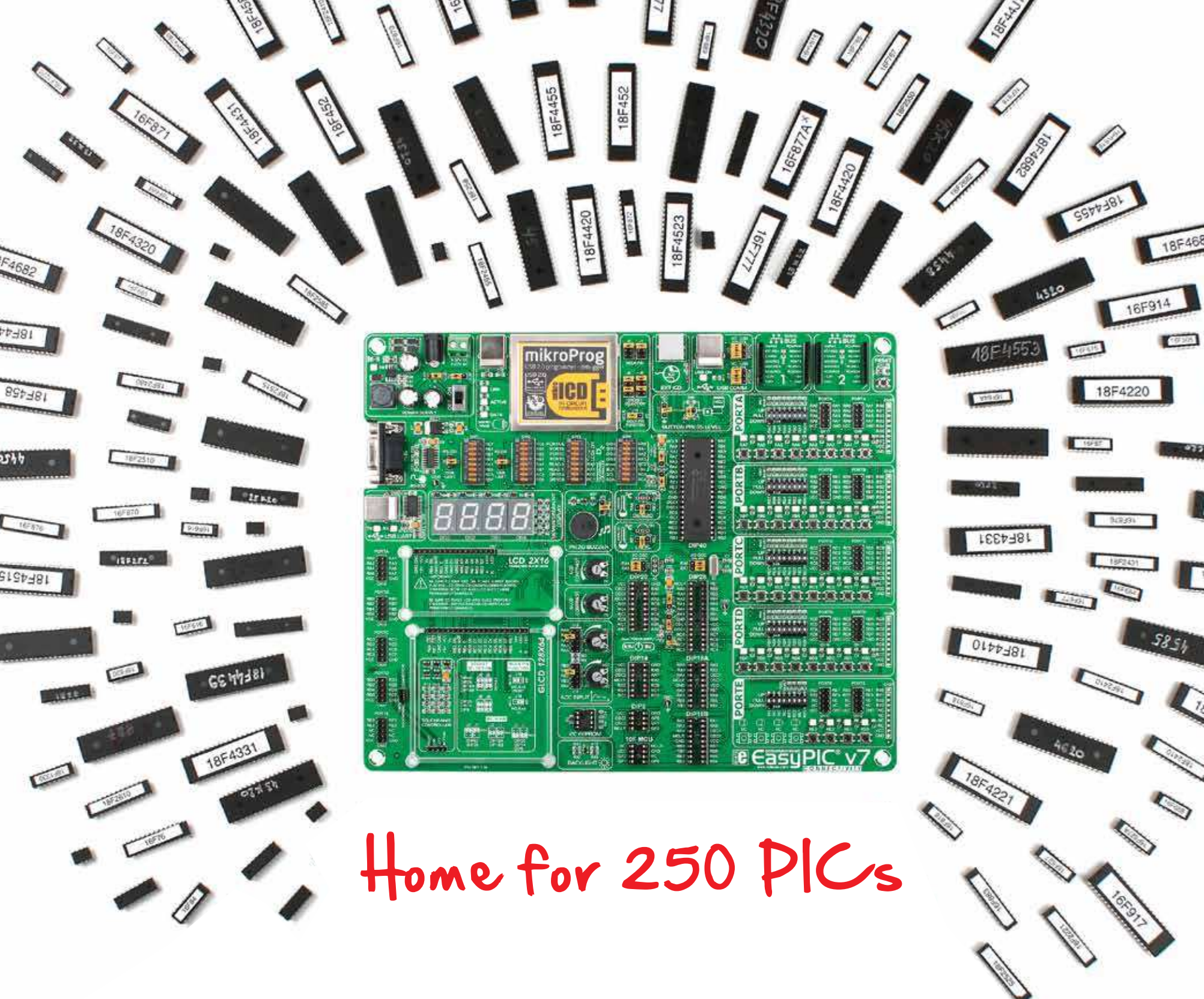
EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

development solutions

MikroElektronika
DEVELOPMENT TOOLS | COMPILERS | BOOKS

www.mikroe.com



Home for 250 PICs

CLICK A PRODUCT TO SEE THE DETAILS

$249.00 MIKROE-750
$199.00 MIKROE-726
$199.00 MIKROE-746

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

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

$99.00 MIKROE-1418
$99.00 MIKROE-790

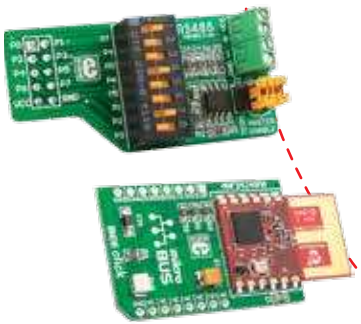
mikroProg™ for PIC®, dsPIC® and PIC32® programmer & debugger

$99.00 MIKROE-764

PIC®

development solution

Rich set of development tools for Microchip® PIC® MCUs, including C, Basic and Pascal Compilers, Development Boards, Programmers / Debuggers and more.



IDC10 and **Click™** add-on boards

MIKROE-995 $169.00

MIKROE-798 $149.00

$99.00 MIKROE-607

mikromedia™ for PIC18FJ®

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

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

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http://www.mikroe.com/dspic/

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

$249.00 MIKROE-734
$199.00 MIKROE-724
$199.00 MIKROE-744

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

$99.00 MIKROE-1418
$99.00 MIKROE-790

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

$99.00 MIKROE-764

IDC10 and **Click™** add-on boards

$99.00

mikromedia™ for PIC24®, dsPIC33®, PIC24EP® and dsPIC33EP®

MIKROE-1205

$179.00

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

MIKROE-1153

$149.00

EasyPICv7 for dsPIC30®
Development board for Microchip® dsPIC30F® devices in DIP packaging

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PIC32®

development solution

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

MIKROE-738 MIKROE-728 MIKROE-748

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

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

MIKROE-1418 MIKROE-790

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

MIKROE-764

IDC10 and **Click™** add-on boards

MIKROE-597

mikromedia™ for PIC32®

MIKROE-1205

MIKROE-596

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

multimedia for PIC32MX7
Platform for multimedia development on a powerful PIC32MX795F512L. Board features 320x240px TFT Touch Screen

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NOMINATED FOR

embedded AWARD 2013

In the Best Tools Category

EasyPIC Fusion v7

16-bit and 32-bit worlds united.

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ARM®

development solution

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

$299.00 MIKROE-936

$249.00 MIKROE-928

$249.00 MIKROE-932

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

$99.00 MIKROE-1418

$99.00 MIKROE-790

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

$49.00 Stellaris® - MIKROE-1031
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mikroProg™ for Stellaris® and **mikroProg®** for STM32® programmers & debuggers

IDC10 and **Click™** add-on boards

$99.00

mikromedia™ for Stellaris® M3, STM32 M3 and STM32 M4

MIKROE-972 $169.00

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

MIKROE-1099 $169.00

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

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http://www.mikroe.com/avr/

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

$249.00 MIKROE-732

$199.00 MIKROE-722

$199.00 MIKROE-742

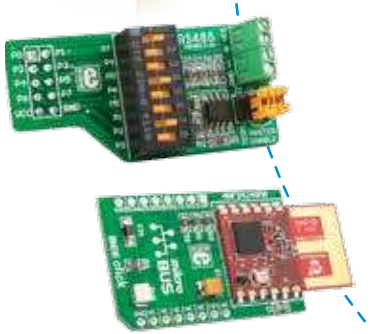
Visual TFT™ and **Visual GLCD™** software

$99.00 MIKROE-1418

$99.00 MIKROE-790

mikroProg™ for AVR® programmer

$59.00 MIKROE-1383



IDC10 and **Click™** add-on boards

$99.00 MIKROE-755

mikromedia™ for XMEGA

MIKROE-456

$139.00

MIKROE-1385

$149.00

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

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

CLICK A PRODUCT TO SEE THE DETAILS

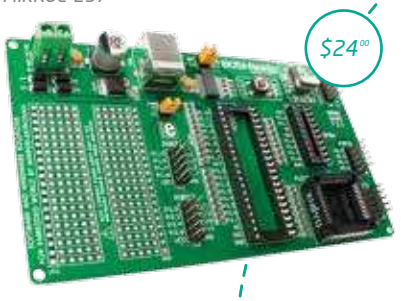
8051®
development solution

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

$249.00 MIKROE-1456
$249.00 MIKROE-1452
$249.00 MIKROE-1454

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

MIKROE-257



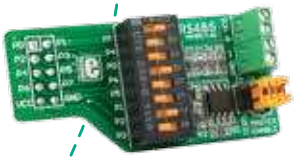
$24.00

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

MIKROE-1382

$69.00

mikroProg™ for **8051**
Supports all Atmel® AT89 devices.



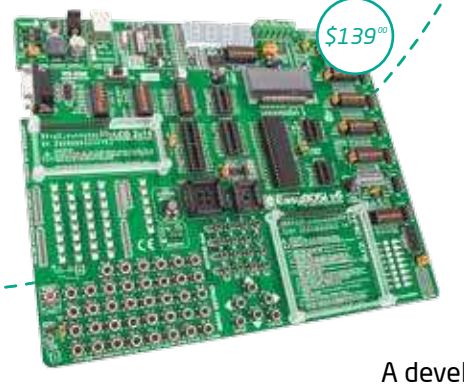
IDC10 add-on boards

MIKROE-598

$169.00

BIG8051
Full-featured development environment for Silicon Labs C8051Fxxx microcontrollers

MIKROE-455



$139.00

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

ASLK PRO

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TEXAS INSTRUMENTS

ASLK PRO

Learn analog with ease

The best tool for students

Depictive board markings

Everything is already here

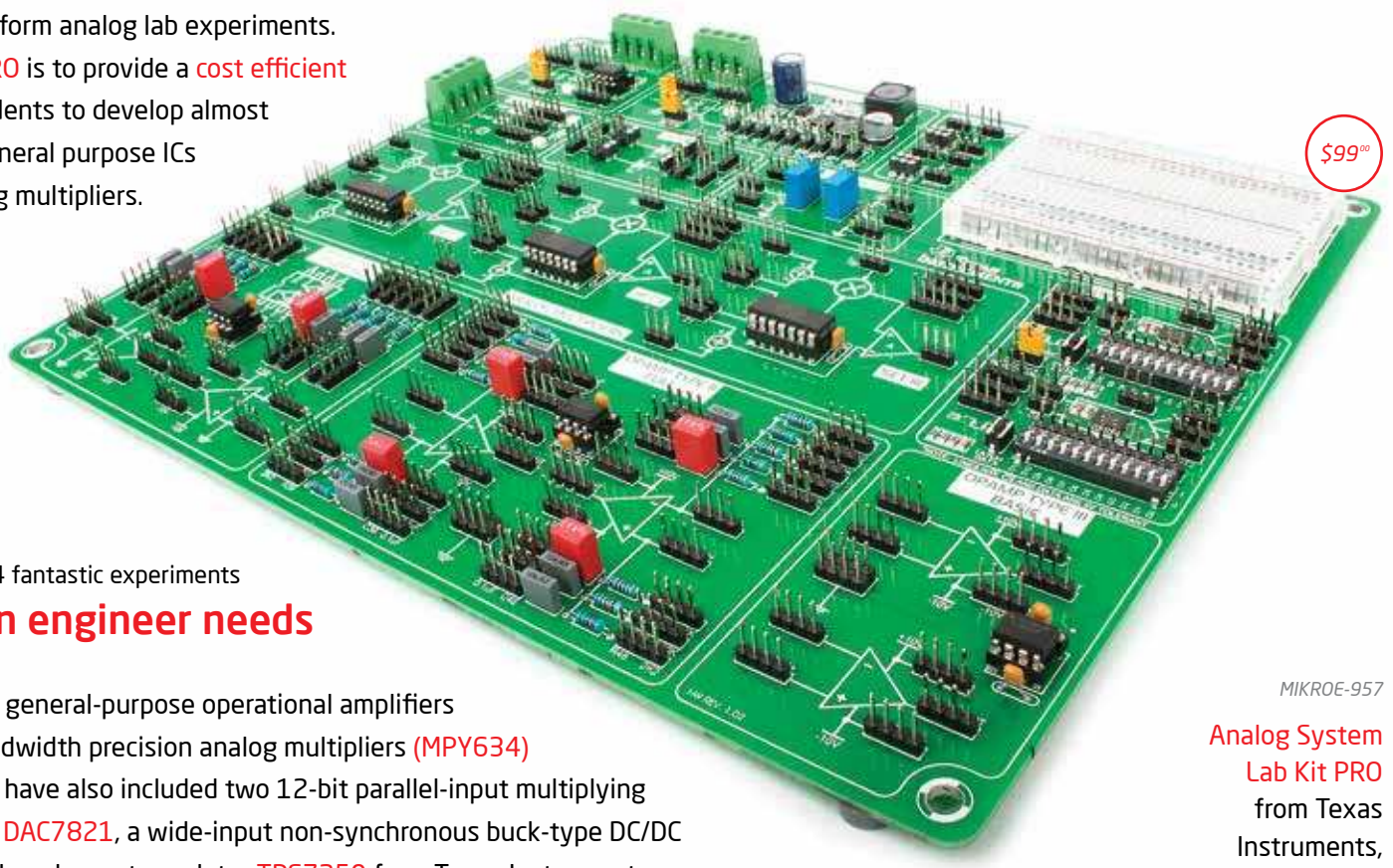
Long lasting quality

Built from the best components

Manuals that teach

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 such as OP-Amps and analog multipliers.



$99.00

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

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

mikromedia+

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

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mikromedia+

MIKROE-1399

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.

MIKROE-1398

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.

MIKROE-1397

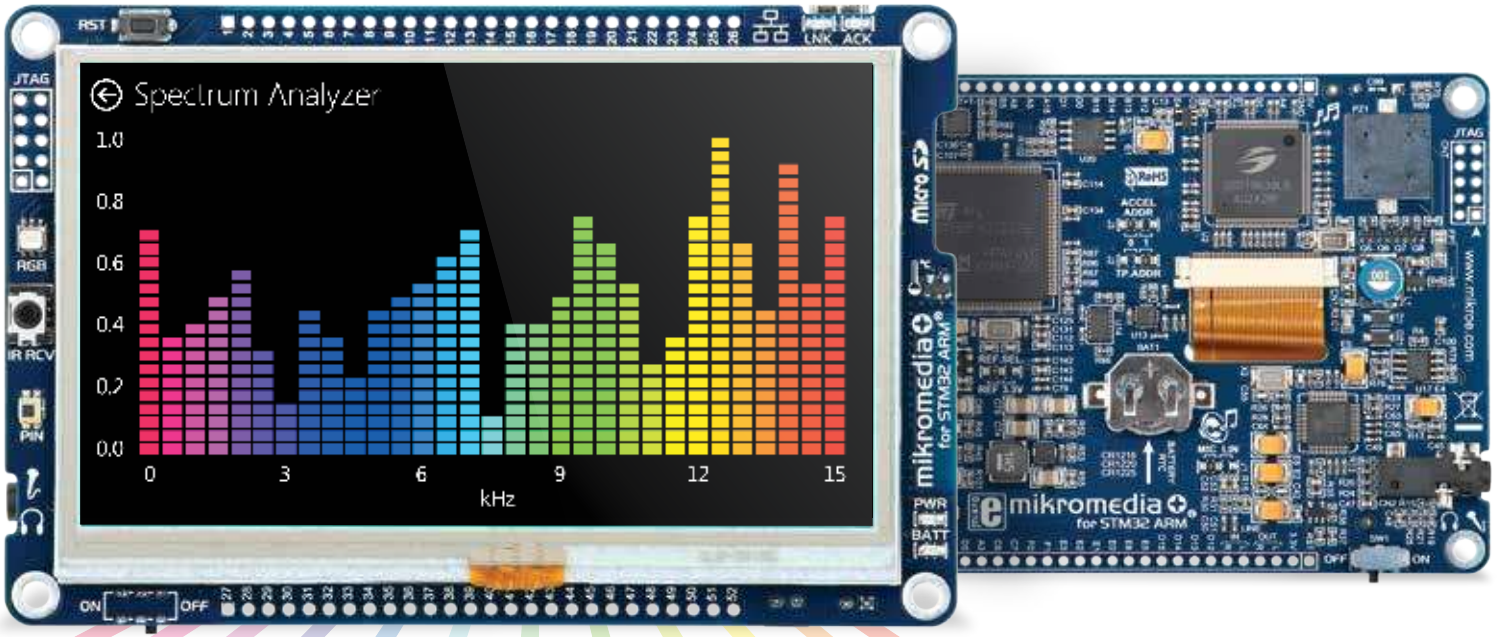
for STM32 ARM

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.

CLICK A PRODUCT TO SEE THE DETAILS

Ever Tried **168MHz**

on a microcontroller?



mikromedia+
for STM32

ARMY OF CLICKS

click boards

one SOCKET for click ALL boards

CLICK A PRODUCT TO SEE THE DETAILS

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!

MIKROE-922 $24.00

ADC click

MIKROE-950 $18.00

DAC click

MIKROE-990 $17.90

LigtHz click

MIKROE-951 $12.00

EXPAND click

MIKROE-1199 $10.00

Flash click

MIKROE-923 $16.90

DIGI POT click

MIKROE-1195 $25.90

IrDA2 click

MIKROE-945 $9.00

BUZZ click

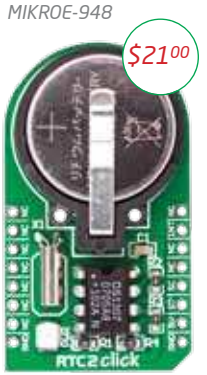
MIKROE-924 $16.00

microSD click

MIKROE-947 $21.00

RTC click

MIKROE-948 $21.00



RTC2 click

MIKROE-1200 $8.00

EEPROM click

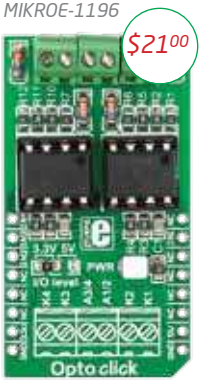
MIKROE-1197 $29.00

THERMO click

MIKROE-946 $21.90

MP3 click

MIKROE-1196 $21.00



Opto click

MIKROE-988 $21.00

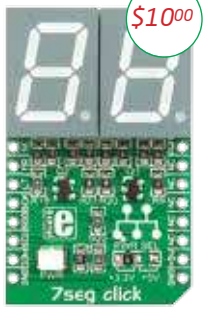
CAN SPI click

MIKROE-986 $21.00

CAN SPI click 3.3V

MIKROE-987 $29.00

BEE click

MIKROE-1201 $10.00


7seg click

MIKROE-1203 $13.90

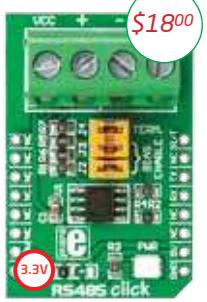
USB UART click

MIKROE-1204 $13.90

USB SPI click

MIKROE-925 $18.00

RS485 click 5V

MIKROE-989 $18.00


RS485 click 3.3V

MIKROE-1194 $19.00

Accel click

MIKROE-1379 $25.00

Gyro click

MIKROE-1296 $26.00

4-20mA T click

MIKROE-1387 $26.00

4-20mA R click

MIKROE-971 $24.00

ETH click

MIKROE-1135 $45.00

WiFi PLUS click

MIKROE-1032 $49.00

GPS click

MIKROE-1133 $44.00

GPS click - L10

MIKROE-1374 $44.00

GPS2 click

MIKROE-1306 $15.00

8x8 G click

MIKROE-1295 $15.00

8x8 R click

MIKROE-1294 $15.00

8x8 Y click

MIKROE-1307 $18.00

8x8 B click

MIKROE-1304 $19.00

nRF C click

MIKROE-1305 $16.00

nRF T click

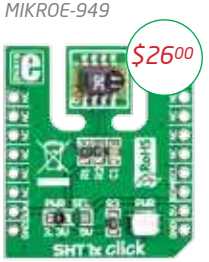
MIKROE-1297 $25.00

DALI click

MIKROE-1386

Compass click

MIKROE-949



SHT1x click

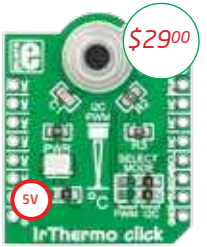
MIKROE-1377

IR click

MIKROE-1361

IrThermo click 3.3V

MIKROE-1362



IrThermo click 5V

MIKROE-958

BlueTooth click

MIKROE-1389

Bluetooth2 click

MIKROE-1366

OSD click

MIKROE-1370

RELAY click

MIKROE-1298

GSM click

MIKROE-1375

GSM2 click

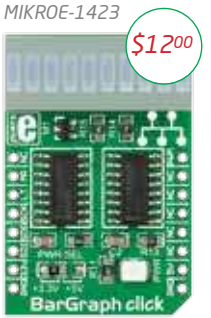
MIKROE-1431

FM click

MIKROE-1430

EVE click

MIKROE-1423



BarGraph click

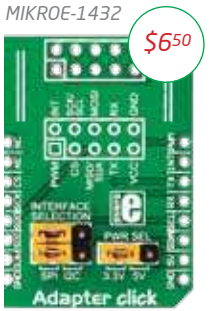
MIKROE-1421

FTDI click

MIKROE-1396

Current click

MIKROE-1432



Adapter click

MIKROE-1422

Pressure click

MIKROE-1424

Light click

MIKROE-1489

Altitude click

MIKROE-1444

Thunder click

MIKROE-1436

Fiber Opt click 3.3V

MIKROE-1470

Fiber Opt click 5V

MIKROE-1486

FRAM click

MIKROE-1506

Joystick click

MIKROE-1445

Proximity click

MIKROE-1438

Color click

MIKROE-1435

ccRF click

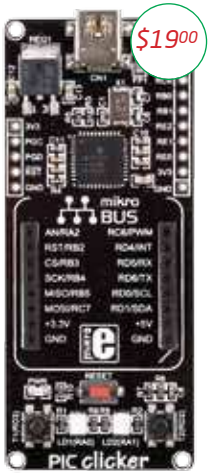
MIKROE-1433

click USB adapter

MIKROE-1446

CapSense click

MIKROE-1487



PIC clicker

PIC® clicker
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!

mikromedia

CLICK A PRODUCT TO SEE THE DETAILS

mikromedia boards

mikromedia for PIC32
(features PIC32MX460F512L)

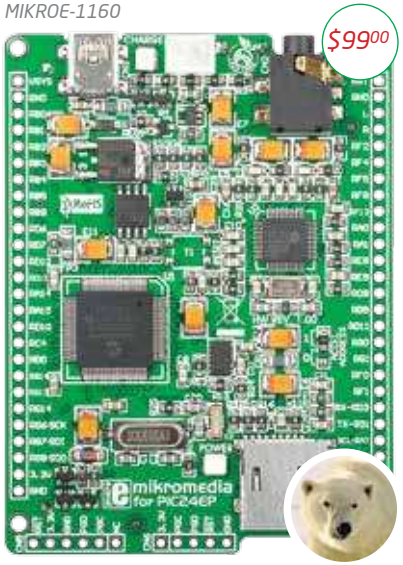
Swiss Army Knives for Multimedia Developers

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.

MIKROE-1160



mikromedia for PIC24EP
(features PIC24EP512GU810)

MIKROE-1159

mikromedia for dsPIC33EP
(features dsPIC33FJ256GP710A)

MIKROE-606

mikromedia for dsPIC33
(features dsPIC33FJ256GP710A)

MIKROE-1101 / MIKROE-1102

mikromedia for STM32
(features STM32F207VGT6
or STM32F407VGT6)

MIKROE-974

mikromedia for Stellaris M3
(features LM3S9B95)

MIKROE-755

mikromedia for XMEGA
(features ATXMEGA128A1)

MIKROE-607

mikromedia for PIC18FJ
(features PIC18F87J50)

MIKROE-608

mikromedia for PIC24
(features PIC24FJ256GB110)

mikromedia accessories

CLICK A PRODUCT TO SEE THE DETAILS

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.

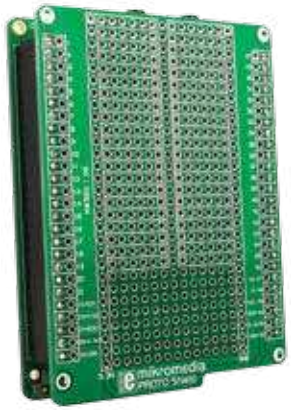
MIKROE-1154

mikroBUS Shield – 7^{50}

MIKROE-712

Battery BOOST Shield – 14^{00}

MIKROE-767



PROTO Shield – 6^{90}

MIKROE-938

Connect Shield – 16^{00}

Scan QR code to see mikromedia Gaming Shield library

mikromedia Gaming Shield – 18^{00}

MIKROE-782

MINIbards

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.

slow — fast

1x

MIKROE-911

PIC18F45K22

25x

MIKROE-1368

MINI-M4 for Stellaris

contains LX4F230H5QR (ARM® Cortex™-M4)

30x

MIKROE-763

MINI-32

contains PIC32MX534F064H

40x

MIKROE-1367

MINI-M4 for STM32

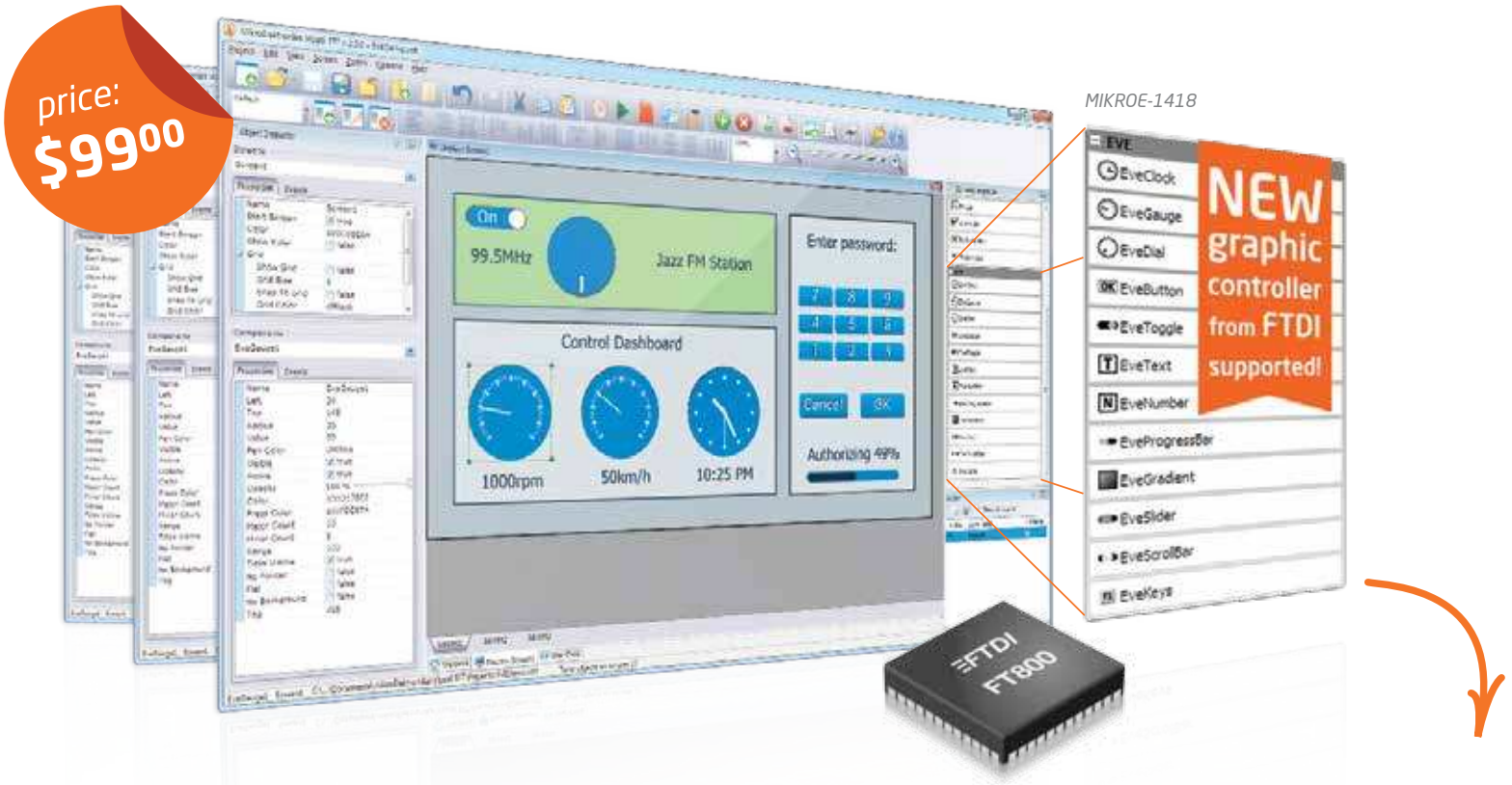
contains STM32F415RG (ARM® Cortex™-M4)

VISUAL TFT

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

VISUAL TFT

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

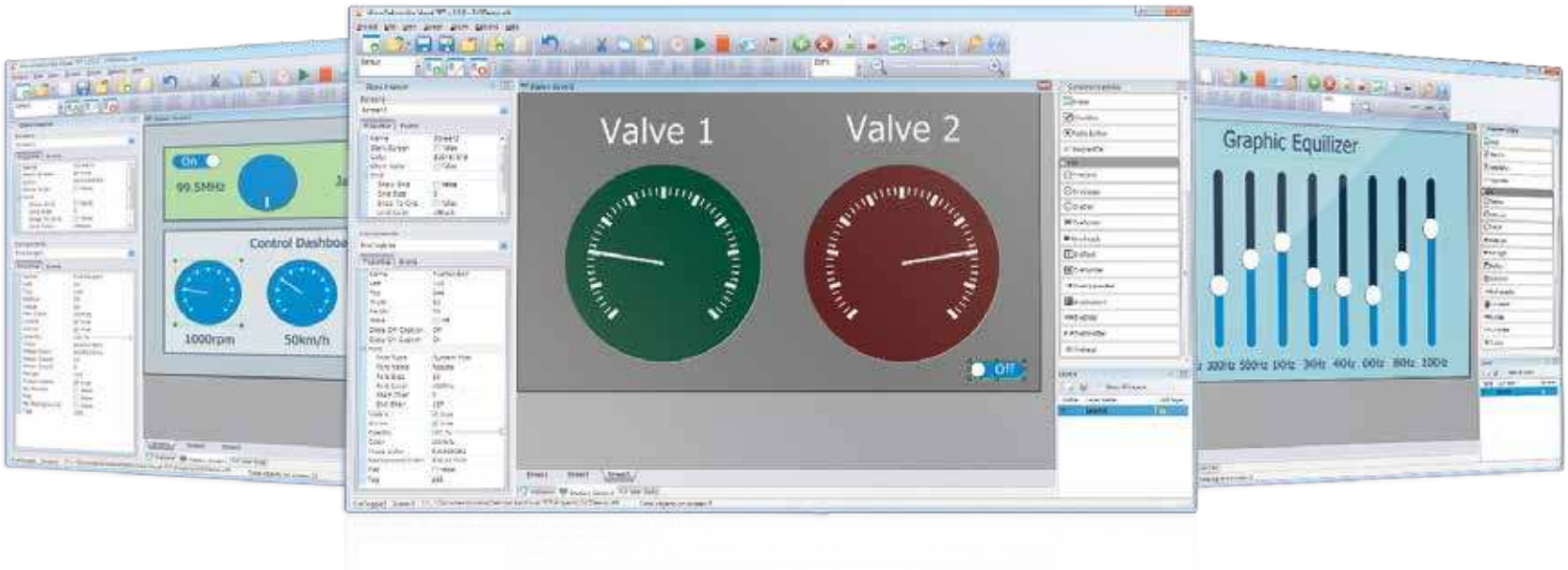
Visual TFT is the first software in the world that supports FTDI's powerful new EVE GUI platform, and it's rich set of features.

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 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.

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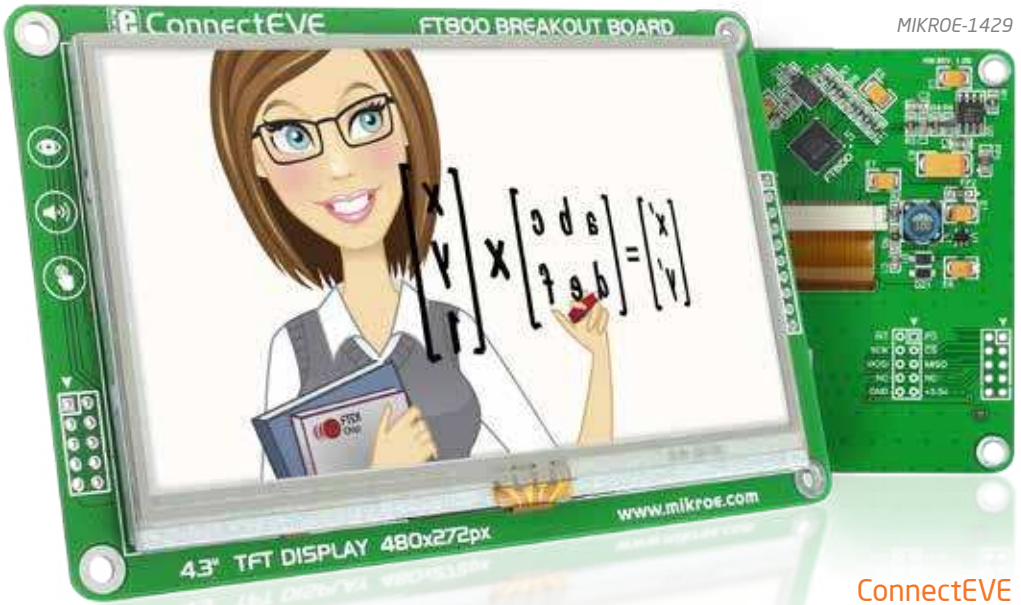

MIKROE-1429

ConnectEVE
$69^{00}

MIKROE-1430

EVE click
$39^{00}

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™ 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.

community

http://www.mikroe.com/esupport/

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:

- facebook.com/mikroElektronika/
- youtube.com/mikroelektronika/
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- Storage (25)
- Timers (Real time clock) (43)
- Other Codes (107)
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- RFid (4)
- Motor Control (26)
- Bootloaders (5)
- Development Systems (25)

TOP CONTRIBUTORS

1. MikroElektronika Team (116 codes)
2. Alcides Ramos (49 codes)
3. Dany (47 codes)
4. NART SCHINACKOW (34 codes)

CATEGORIES: All codes | Libraries | Projects | Visual Projects | Examples

COMPILERS: mikroC | mikroBasic | mikroPascal | Other Compilers

SORT BY: best rank | oldest | by author | alphabetically | most downloaded | with source | with example

CATEGORY: ALL CODES

<< previous | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 next >> last

Network Ethernet Library

Rating: ★★★★☆

Author: MikroElektronika Team

Version: 1.0.5.0

Last Updated: 2013-07-18

Category: Ethernet

Downloaded: 14893 times

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Description

Ethernet library designed to simplify handling of the underlying hardware (ENC24J600/ENC28J60 and internal ethernet module on PIC18 and PIC32). Library supports: TCP Stack (Server/Client), UDP, IPv4 protocol, ARP requests, ICMP echo requests, ARP client with cache, DNS client, DHCP client.

[learn more]

supported microcontrollers: PIC DSPIC PIC32 AVR ARM

supported compilers: MIKROC MIKROBASIC MIKROPASCAL

supported visual tools:

archive format: MPKG

project contains: LIB EXA HLP HEX

Timer Calculator

Rating: ★★★★★

Author: MikroElektronika Team

Version: 2.6.0.0

Last Updated: 2013-10-08

Category: Timers (Real time clock)

Downloaded: 13540 times

Followed by: 9 users

Download [1.83MB]

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

[learn more]

supported microcontrollers: OTHER

supported compilers: OTHER

supported visual tools:

archive format: ZIP

project contains: HLP

FAT32 Library

Rating: ★★★★☆

Author: MikroElektronika Team

Version: 2.5.0.0

Last Updated: 2013-04-25

Category: Storage

Downloaded: 11548 times

Followed by: 24 users

Download [2.59MB]

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 -card format (MMC/SD only)

[learn more]

supported microcontrollers: PIC DSPIC PIC32 AVR ARM

supported compilers: MIKROC MIKROBASIC MIKROPASCAL

supported visual tools:

archive format: MPKG

project contains: LIB EXA HLP HEX

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

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

MikroElektronika
Batajnički drum 23
11186 Belgrade
Address Code: 201044
EUROPE

Phone

+ 381 11 78 57 600

Fax

+ 381 11 78 57 600

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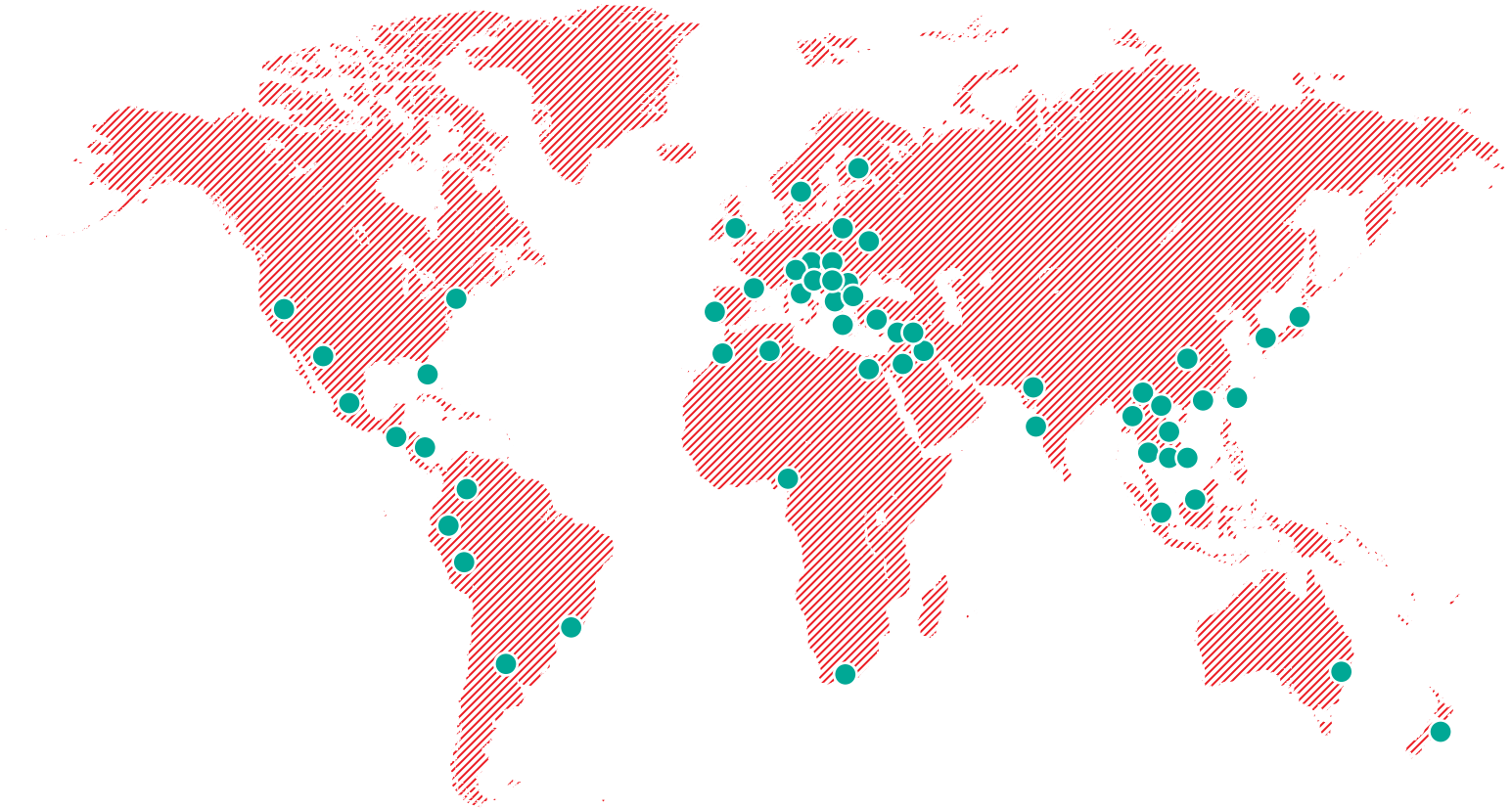

MikroElektronika supplies the entire world with first-class embedded solutions. Find our products with more than 60 distributors worldwide. Choose the one closest to you. Full distributors list and contact information can be found at our webpage:

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December 2013.