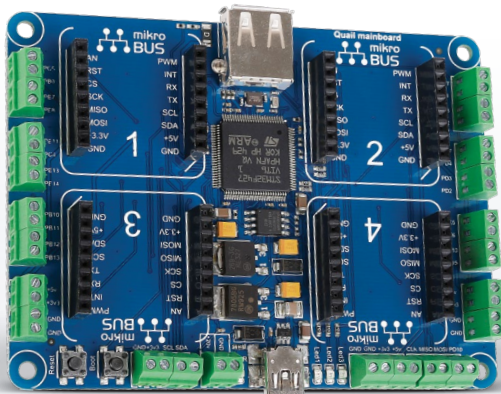
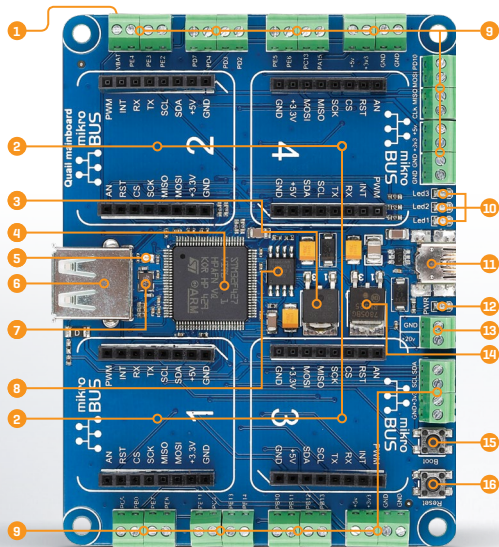




click™ boards meet .NET Micro framework



What's on board



- 1 RTC battery connector
- 2 mikroBUS™ sockets 1, 2, 3 and 4
- 3 3.3V voltage regulator
- 4 100pin STM32F427 MCU
- 5 32.768 KHz crystal oscillator
- 6 USB A connector
- 7 12 MHz crystal oscillator
- 8 Flash memory (64 Mbit)
- 9 Connecting terminals
- 10 Additional indication LEDs
- 11 USB Mini-B connector
- 12 Power indication LED
- 13 External power supply (+20V max)
- 14 5V voltage regulator
- 15 BOOT button
- 16 RESET button

System specification



power supply
via USB cable
[5V DC]



board dimensions
72 x 97 mm
[2.83 x 3.82 inch]



weight
≈ 50g



mikroBUS™
4 sockets
available

What is the Quail board?

Quail is a hardware development board equipped with four mikroBUS™ sockets and a 32-bit ARM® Cortex®-M4 STM32 microcontroller. The edges of the board are lined with screw terminals and USB ports for additional connectivity.

What's it for?

Quail offers a simplified way of developing hardware prototypes with C# managed code. It brings together MikroElektronika click™ boards and Microsoft's .NET Micro Framework for embedded devices (NETMF). MikroElektronika is constantly expanding the range of click™ boards to include all sorts of sensors, transceivers, displays... and the MikroBUS.NET team is supporting them with high-quality drivers to make them compatible with NETMF and the Microsoft Visual Studio IDE.



1. Install the required software

To start using Quail, download the following three pieces of software:

The Microsoft .NET Micro Framework

Open source platform that enables you to write managed C# code for embedded applications.

➔ www.netmf.com

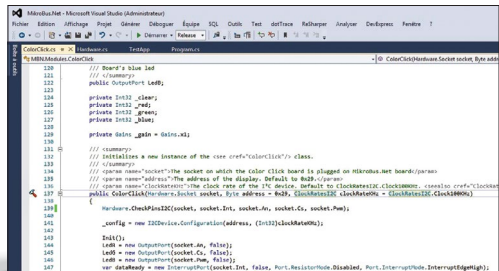
Visual Studio Community 2013

A full-featured free cross-platform IDE from Microsoft.

➔ www.visualstudio.com

MBN Core Assembly

➔ www.mikrobustnet.org/downloads-2



Visual Studio Community 2013

2. Get the click™ boards and corresponding drivers

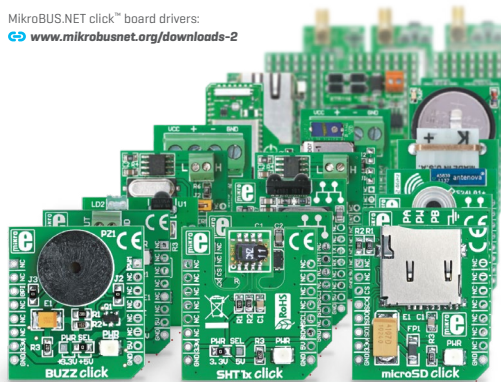
Buzzer, Relays, WiFi, RFid, OLED, Speech recognition - **you name it, we got it!** There are more than a hundred click™ boards available. About 50 are supported so far with mikroBUS.NET drivers. More drivers are coming up all the time but if you're in a hurry instructions for building your own drivers are also available.

All available click™ boards:

www.mikroe.com/click

MikroBUS.NET click™ board drivers:

www.mikrobustnet.org/downloads-2



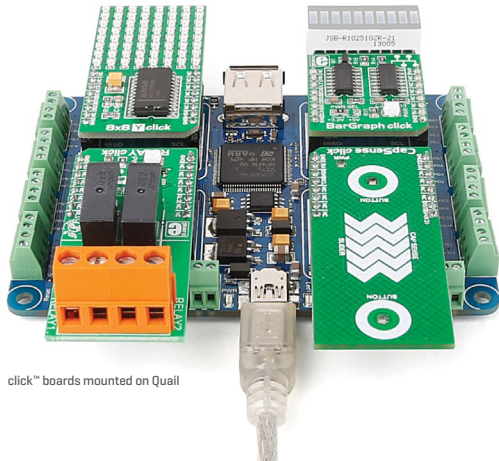
click™ add-on boards

3. Building your first application

After you're done setting up the development environment with steps 1 and 2, you are ready to start building your first application.

A detailed walkthrough on how to start a project in Visual Studio, include the necessary drivers and reference the needed assemblies in your source code is available at:

www.mikrobustnet.org/getting-started/writing-an-application



click™ boards mounted on Quail



MikroBUS
NET

The Microsoft® and Visual Studio® logos and product names are trademarks of Microsoft® in the U.S.A. and other countries

If you want to learn more about our products, please visit our web site at **www.mikroe.com**.

If you are experiencing some problems with any of our products or just need additional information, please place your ticket at **www.mikroe.com/support**.

If you have any questions, comments or business proposals, do not hesitate to contact us at **office@mikroe.com**

For more information and Quail-related updates directly from the MikroBUS.NET team, visit:
www.mikrobusnet.org/project/quail

Quail Board manual
ver 2.00



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mikroe:

[MIKROE-1793](#)