

MSP432 Clicker

PID: MIKROE-2503



MSP432 clicker is a compact development board with a mikroBUS™ socket for click board connectivity. It carries the SimpleLink™ MSP432™ - ARM® 32-Bit Cortex®-M4F CPU with integrated 1Msps 14-bit SAR-based ADC from **Texas Instruments**.

Everything you need to get started

The board features everything you need to get started: a 32-bit MSP432™ microcontroller, micro USB connector, two LEDs and push buttons, reset button and headers for interfacing with external electronics.

SimpleLink™ MSP432™ microcontroller

The SimpleLink™ MSP432™ microcontroller is ultra-low-power microcontrollers with high-performance processing capabilities and high-precision analog integration optimized for as host MCU for wireless connectivity, sensing and measurement.

The SimpleLink™ MSP432™ MCUs feature the ARM Cortex-M4 processor in a wide configuration of device options including a rich set of high-precision analog, timing, and communication peripherals, thereby catering to a large number of application scenarios where both efficient data processing and enhanced low-power operation are paramount.

The MCU has 256KB of Flash Main Memory (Organized Into Two Banks Enabling Simultaneous Read/Execute During Erase). 16KB of Flash Information Memory (Used for BSL, TLV, and Flash Mailbox). Up to 64KB of SRAM (Including 6KB of Backup Memory). 32KB of ROM With MSP432™ Peripheral Driver Libraries.

Hundreds of possibilities with click boards™

Take advantage of the constantly expanding range of over 270 click boards™ - the onboard mikroBUS™ socket allows you to add new functionality to your project. Each click board™ comes with a set of working example code.

Programming

To make your prototyping experience as convenient as possible, MSP432 clicker is preprogrammed with a UART bootloader. Just download our mikroBootloader application and you're ready to upload your firmware. On-board mikroProg for MSP432 connector enables programming through external programmer/debugger.

Product Type	ARM
Applications	This compact development board brings the flexibility of click boards to your favorite microcontroller, making it a perfect starter kit for implementing your ideas.
Architecture	ARM (32-bit)
MCU	MSP432 from Texas Instruments
MCU Memory	256KB of Flash Main Memory, 64KB of SRAM
On-board modules	1 x USB MINI-B connector, 2 x LEDs, 2 x push buttons, 1 x reset button
Expandability	mikroBUS socket