



MicroTRAK - Universal Training Kit for Microcontrollers

The ultimate training kit and project development platform with microcontrollers. Whether developing a new project with or learning about microcontrollers, you will find MicroTRAK a highly versatile carrier board with support for microcontroller systems with 8051, AVR®, ARM, Cortex™, MSP430™, 6811, 6808, PIC®, BASIC Stamp®, and other microcontrollers.

MicroTRAK Supports all BiPOM Electronics peripheral boards and includes practical examples for C, BASIC and Assembly Language Programming, Keypad and LCD interfacing, I2C bus, Serial port programming, Motor control, Analog to Digital Conversion and many other fun and instructive projects.

MicroTRAK serves not only as a training kit but also as a rapid project development tool. Pick a microcontroller board for the microcontroller family that you are familiar with, download software development tools from our website, plug the peripheral boards and/or display/keypad for your project to the **MicroTRAK** carrier board and you are much closer to a tangible proof-of-concept for your project. Retain your initial investment in your training kit when moving to a different microcontroller family. Simply change the microcontroller board and the optional I/O Module. All cables, carrier board, power supply, peripheral boards, keypad, LCD display, etc. remain the same.

MicroTRAK supports for a wide range of microcontroller and peripheral boards, has sockets for dual peripheral boards, keypad interface, industry-standard display interface for alphanumeric LCD and VFD displays, connectors and cables for connection to a standard breadboard, expansion port for a microcontroller-specific pluggable module (for example, 8051 I/O Module) with port connectors, port indicator LED's and port control DIP Switches.

MicroTRAK Carrier Board



MicroTRAK/AVR-C Complete: MicroTRAK/AVR-C Complete includes MicroTRAK Carrier Board, MINI-MAX/AVR-C Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, Training Manuals, Labbook, Demo version of BASCOM-AVR BASIC Compiler, AVR Studio, WinAVR C Compiler, Assembler, Micro-IDE, example projects, Serial downloader.



MicroTRAK/51-C2 Complete: MicroTRAK/51-C2 Complete includes MicroTRAK Carrier Board, MINI-MAX/51-C2 Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, Training Manuals, Lab book, Demo versions of BASCOM51 BASIC Compiler, Micro C Compiler, Assembler, Micro-IDE, example projects, full version of SDCC C Compiler (open-source), Serial downloader.



MicroTRAK/51-E Complete: MicroTRAK/51-E Complete includes MicroTRAK Carrier Board, MINI-MAX/51-E Microcontroller Board with Ethernet, TB-1 Training Board, MMC-RTC-1 board with Real-Time Clock and MultiMediaCard (MMC), Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, WEB51 Web Server firmware, Training Manuals, Lab book, Demo versions of BASCOM51 BASIC Compiler, Micro C Compiler, Assembler, Micro-IDE, example projects, full version of SDCC C Compiler (open-source), Serial downloader.



MicroTRAK/51-F Complete: MicroTRAK/51-F Complete includes MicroTRAK Carrier Board, MINI-MAX/51-F Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, Training Manuals, Labbook, Demo version of BASCOM51 BASIC Compiler, Demo Version of Micro C Compiler, Assembler, Micro-IDE, example projects, full version of SDCC C Compiler (open-source), Serial downloader.



MicroTRAK/P18 Complete: MicroTRAK/P18 Complete includes MicroTRAK Carrier Board, MINI-MAX/P18 Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, Training Manuals, Labbook, MC Development System, example projects, Serial downloader.



MicroTRAK/ARM-C Complete: MicroTRAK/ARM-C Complete includes MicroTRAK Carrier Board, MINI-MAX/ARM-C Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, Manuals, ARM Development System (GCC Compiler, assembler, linker, downloader, examples, Serial downloader).



MicroTRAK/ARM-E Complete: MicroTRAK/ARM-E Complete includes MicroTRAK Carrier Board, MINI-MAX/ARM-E Microcontroller Board with Ethernet, TB-1 Training Board, MMC-RTC-1 board with Real-Time Clock and 128MB MultiMediaCard (MMC), Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, WebCatPlus Web Server firmware, Manuals, ARM Development System (GCC Compiler, assembler, linker, downloader, examples, Serial downloader).



MicroTRAK/STM32-F1 Complete: MicroTRAK/STM32-F1 Complete includes MicroTRAK Carrier Board, MINI-MAX/STM32F1-C Microcontroller Board, TB-1 Training Board, Universal I/O Module, MMC-RTC-1 board with Real-Time Clock and 128MB MultiMediaCard (MMC), LCD242-BK LCD Display, KP1-4X4 Matrix Keypad, Serial cable, 6VDC Adapter, Micro-IDE, STM Development System (Yagarto Compiler, Assembler, Linker), Serial downloader, example projects.



MicroTRAK/MSP430-C Complete: MicroTRAK/MSP430-C Complete includes MicroTRAK Carrier Board, MINI-MAX/MSP430-C Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Universal I/O Module, LCD242-BK LCD, KP1-4X4 Keypad, Cables, Adapter, Training Manuals, Labbook, Micro-IDE, example projects, MSPGCC GNU C Compiler, Serial downloader.



Lower cost Starter versions of MicroTRAK kits are available without any peripheral boards.

MicroTRAK Input/Output Modules

Universal I/O Module

Universal I/O Module allows access to all input/output (I/O) ports of the microcontroller on the MicroTRAK development platform.

Universal I/O Module has 32 switches to control the microcontroller inputs and 32 LED's to indicate port status.

