



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, 6811, 6808, PIC®, Basic Stamp, Basic Tiger and others.

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 support for a wide range of microcontroller and peripheral boards, 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, AVR 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, 8051 I/O Module, LCD242 LCD, KP1-4X4 Keypad, Cables, Adapter, Training Manuals, Lab book, Demo versions of BASCOM51 BASIC Compiler, Micro C Compiler, Assembler, Micro-IDE, over 70 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 64MB Multimedia Card (MMC), 8051 I/O Module, LCD242 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, over 70 example projects, full version of SDCC C Compiler (open-source), Serial downloader.

MicroTRAK/BSP Complete

MicroTRAK/BSP Complete includes BASIC Stamp BS2P, MicroTRAK Carrier Board, BASIC Stamp Carrier Board (BSCB), TB-1 Training Board, PROTO-1 Prototyping Board, BASIC Stamp I/O Module , LCD242 LCD, KP1-4X4 Keypad, Cables, Adapter, Manuals, examples.

MicroTRAK/908-C Complete

MicroTRAK-908 Complete includes MicroTRAK Carrier Board, MINI-MAX/908-C Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, Serial Cable, Adapter, Training Manuals, Lab book, 68HC08 Assembler, Micro-IDE, Example projects, Serial downloader.

Options: 68HC08 Developer's Kit.

MicroTRAK/P18 Complete

MicroTRAK/P18 Complete includes MicroTRAK Carrier Board, MINI-MAX/P18 Microcontroller Board, TB-1 Training Board, PROTO-1 Prototyping Board, I/O Module for PIC®, LCD242 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, ARM 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 Multimedia Card (MMC), 8051 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 Modules

8051 I/O Module

8051 I/O Module allows access to all input/output (I/O) ports of the 8051 micro-controller on the MicroTRAK development platform.

8051 I/O Module has 32 switches to control the 8051 microcontroller inputs and 32 LED's to indicate the port statuses as logic LOW or logic HIGH.

8051 I/O Module is powered from a 5 Volt regulated DC power source through the 36-pin input/output connector.



BSCB I/O Module

BSCB IO Module allows access to all input/output (I/O) ports of the BASIC Stamp Module on the MicroTRAK development platform.



I/O Module for PIC®

PIC® I/O board allows access to any port of a PIC® micro-controller on the MicroTRAK development platform. PIC® I/O board has 36 switches to control PIC® micro-controller inputs and 36 LED's to indicate the outputs.

68HC12 Training Kit

Based on the Motorola M68EVB912B32 Micro-controller Board. In-system programming using a PC through the RS232 serial port.

System includes:

Hardware :

- Motorola M68EVB912B32 Micro-controller Board
- 32K Flash memory, 1K internal RAM, 768 bytes EEPROM
- 8 channel, 10-bit Analog/Digital Converter
- 63 Input/Output Lines
- Wire-wrapping/prototyping area
- RS232 Serial Port, Serial cable

Software:

- Micro-IDE - a Windows-based Integrated Development Environment
- 68HC12 Assembler
- Serial loader
- Example Projects

