32-Bit

The TriCore™ is the first unified, single-core, 32-bit microcontroller-DSP architecture optimized for real-time embedded systems. The TriCore Instruction Set Architecture (ISA) combines the real-time capability of a microcontroller, the computational power of a DSP, and the high performance/price features of a RISC load/store architecture, in a compact re-programmable core.

Max. CPU Clock (MHz)	FPU	MMU	PCP	SRAM (Byte)	ROM/OTP/ Flash/ eDRAM (Byte)	I/O Lines	CAN	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Infineon Part No.
100	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L100EB-GBBINCT-ND▲	35.72	33.26	SAF-TC1100-L100EB-G BB
100	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L100EB-GBBINTR-ND◊	15702.77/1,000		SAF-TC1100-L100EB-G BB
150	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L150EB-GBBINCT-ND▲	38.22	35.59	SAF-TC1100-L150EB-G BB
150	√	√	—	144K	—	72	—	LBGA-208	SAF-TC1100-L150EB-GBBINTR-ND◊	16801.95/1,000		SAF-TC1100-L150EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L100EB-GBBINCT-ND▲	38.21	35.58	SAF-TC1115-L100EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L100EB-GBBINTR-ND◊	16801.19/1,000		SAF-TC1115-L100EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L150EB-GBBINCT-ND▲	42.02	39.13	SAF-TC1115-L150EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1115-L150EB-GBBINTR-ND◊	18473.86/1,000		SAF-TC1115-L150EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L100EB-GBBINCT-ND▲	44.96	41.86	SAF-TC1130-L100EB-G BB
100	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L100EB-GBBINTR-ND◊	19766.84/1,000		SAF-TC1130-L100EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L150EB-GBBINCT-ND▲	49.43	46.03	SAF-TC1130-L150EB-G BB
150	√	√	—	144K	—	72	MultiCAN	LBGA-208	SAF-TC1130-L150EB-GBBINTR-ND◊	21734.03/1,000		SAF-TC1130-L150EB-G BB
66	√	—	—	48K	1M Flash	81	—	LQFP-176	SAF-TC1161-128F66HLAAIN-ND	30.60	25.85	SAF-TC1161-128F66HL AA
66	√	—	—	48K	1M Flash	81	MultiCAN	LQFP-176	SAF-TC1162-128F66HLAAIN-ND	32.40	27.37	SAF-TC1162-128F66HL AA
80	√	—	√	80K	1.5M Flash	81	—	LQFP-176	SAF-TC1165-192F80HLAAIN-ND	37.08	31.32	SAF-TC1165-192F80HL AA
80	√	—	√	80K	1.5M Flash	81	MultiCAN	LQFP-176	SAF-TC1166-192F80HLAAIN-ND	38.89	32.84	SAF-TC1166-192F80HL AA

▲ Cut Tape ◊ Tape and Reel

Starter Kits

B158-H8690-X-0-7600IN-ND Full Starter Kit for TC116X **$621.86**

B158-H8539-G2-X-7600IN-ND Full Starter Kit for TC176X **$815.30**

B158-H8537-G2-X-7600IN-ND Full Starter Kit for TC179X **$815.30**

KEIL An ARM® Company

PK51 Professional Developer's Kit

The PK51 Professional Developer's Kit for the 8051 microcontroller family supports all 8051 derivatives including new devices with extended memory and instruction sets. On-chip peripherals and other key features of the 8051 are easy to access with the PK51 Professional Developer's Kit.

PK51-ND **$3295.00**

CA51 Compiler Kit

The CA51 Compiler Kit for the 8051 microcontroller family supports all 8051 derivatives including classic devices and IP cores from companies like Analog Devices, Atmel, Cypress Semiconductor, Dallas Semiconductor, Infineon, Intel, NXP, Silicon Labs, STMicroelectronics, Texas Instruments, and Winbond. On Chip peripherals and other key features of the 8051 are easy to access with the CA51 Compiler Kit.

CA51-ND **$1895.00**

RealView® Microcontroller Development Kit

The RealView Microcontroller Development Kit (MDK) supports ARM7, ARM9, and Cortex-M3 technology-based microcontrollers from Analog Devices, Atmel, Freescale, Luminary, NXP, OKI, Samsung, Sharp, STMicroelectronics, and Texas Instruments.

MDK-ARM-ND **$4895.00**

RealView® Real-Time Library

The RealView Real-Time Library is a collection of tightly-coupled libraries that are designed to solve the real-time and communication challenges of embedded systems based on ARM powered MCU devices. It also includes several drivers that interface the RTX Real-Time with various communication interfaces.

RTL-ARM-ND **$4195.00**

MCBXC88x Evaluation Board

The MCBXC88x Evaluation Board introduces you to the Infineon XC88x microcontroller family and allows you to create and test working programs for this 8051-based architecture. The CAN interface, analog input (via potentiometer), and eight LED's (on Port 3) make this board a great starting point for your next 8051 project.

MCBXC88x-ND **$149.00**

MCBXC167 Evaluation Board

The MCBXC167 Evaluation Board introduces you to the Infineon XC16x microcontroller family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the serial port (for Flash download) or the OCDS interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger).

MCBXC167-BASIC-ND **$149.00**

MCBSTR7 Evaluation Board

The MCBSTR7 Evaluation Board introduces you to the STMicroelectronics STR710 ARM family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the serial port (for Flash download) or the JTAG interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger).

MCBSTR7-ND **$149.00**

MCBSTR9 Evaluation Board

The MCBSTR9 Evaluation Board introduces you to the STMicroelectronics ARM9 family and allows you to create and test working programs for this advanced architecture. The board connects to your PC using the JTAG interface (for program debug using Keil ULINK USB-JTAG Adapter and the µVision IDE and Debugger). It provides serial (RS-232), CAN, Ethernet, and USB interfaces as well as eight LEDs, analog input (via potentiometer) and several push buttons.

MCBSTR9-ND **$229.00**

MCBx51 Evaluation Board

The MCBx51 single-board computer is an evaluation board that supports numerous 8051-compatible and 251-compatible devices. The MCBx51 allows you to investigate the capabilites of the 8051 and 251 and create real working programs with the Keil development tools. The MCBx51 works with any 44-pin 8051-compatible or 251-compatible device.

MCBx51-ND **$295.00**

MCB950 Evaluation Board

The MCB950 Evaluation Board is a versatile, flexible prototype board for the NXP P89LPC952 microcontroller family. It includes the Keil µVision LPC Development Studio which allows you to create and debug programs that program into the on-chip Flash ROM using FlashMagic.

MCB950-ND **$129.00**

ULINK USB-JTAG Adapter

The ULINK USB Interface Adapter connects your PC's USB port to your target hardware (via JTAG or OCDS) and allows you to debug embedded programs running on target hardware.

ULINK2-ND **$395.00**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.