

# CEIBO

## *inDART-HCS08/GB60*

### **Design Kit for Motorola MC9S08GB (USB)**

- Real-Time Code Execution & In-Circuit Debugging
- Built-In FLASH Programmer
- In-System Programming and Debugging through a BDM-Compatible Interface
- Metrowerks CodeWarrior IDE, with Editor, Assembler, C Compiler and Debugger
- USB Connection to the Host PC
- Evaluation Board with a Sample MC9S08GB60 Microcontroller Included (QFP64 Package)

### **Specifications:**

inDART-HCS08/GB60 is a powerful entry-level Design Kit for Motorola HCS08-based systems. It includes an ISP debugger/programmer and an evaluation board. inDART-HCS08/GB60 takes advantage of Metrowerks CodeWarrior HC(S)08 Integrated Development Environment and the BDC (Background Debug Controller) feature to debug the user program. Together with CodeWarrior HC(S)08, inDART-HCS08/GB60 provides you with everything you need to compile, download (program), in-circuit emulate and debug user code. Full speed program execution allows you to perform hardware and software testing in real time. inDART-HCS08/GB60 is connected to (and powered by) the host PC through a USB port, while the 6-

### **Evaluation Board**

inDART-HCS08/GB60 includes a full-featured evaluation board specific for MC9S08GB microcontrollers (a MC9S08GB60 device in QFP64 package is included). The evaluation board includes DIP-switches, jumpers, LEDs, push-buttons, a potentiometer, prototyping area and a standard BDM connector and can be used for evaluation/experiments in the absence of a target application board.

### **Background Debug Controller (BDC)**

All MCUs in the HCS08 Family contain a single-wire background debug interface which supports in-circuit programming of on-chip non-volatile memory and sophisticated non-intrusive debug capabilities. Unlike debug interfaces on earlier 8-bit MCUs, this system does not interfere with normal application resources. It does not use any user memory or locations in the memory map and does not share any on-chip peripherals. The background debug controller (BDC) uses a single-wire communication interface to allow non-intrusive access to target system memory and registers. inDART-HCS08 series tools use the standard, 6-pin BDM connector defined by Motorola to program and debug the target device.

**CodeWarrior Integrated Development Environment**

inDART-HCS08 series tools come with (and are seamlessly integrated into) a free version of CodeWarrior Development Studio for HC(S)08 Microcontrollers, Special Edition. The CodeWarrior Development Studio for Motorola HC(S)08 Microcontrollers enables you to build and deploy HC(S)08 systems quickly and easily. CodeWarrior Development Studio for HC(S)08 Microcontrollers, Special Edition, includes the CodeWarrior integrated development environment (IDE); 4 KB code-size limited C compiler and C source-level debugger; macro assembler and Assembly-level debugger. The Special Edition allows you to evaluate CodeWarrior Development Studio for HC(S)08 Microcontrollers at no cost.

**Supported Devices**

MC9S08GB60