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Find the *Ashling CT68HC11* at our website: *Click HERE*

CT68HC11 Real-time In-circuit Emulators for Freescale (Motorola) MC68HC11



Key features:
Real-time in-circuit emulator for the 68HC11 family and all derivatives
"PathFinder" source-level debugger and user interface
Supports program development in C and assembler
SEA real-time, non-statistical Performance Analyzer
CTMS Code Coverage measurement system
Modular stand-alone system with power supply
Interchangeable probe cards for all derivatives and packages
Full hardware and software development for the 68HC11 family

System Specification

In-Circuit Emulator

CT68HC11 real-time In-Circuit emulator for all Freescale (Motorola) MC68HC11 devices and derivatives, in memory expansion and single-chip modes.

Source-Level Debugging

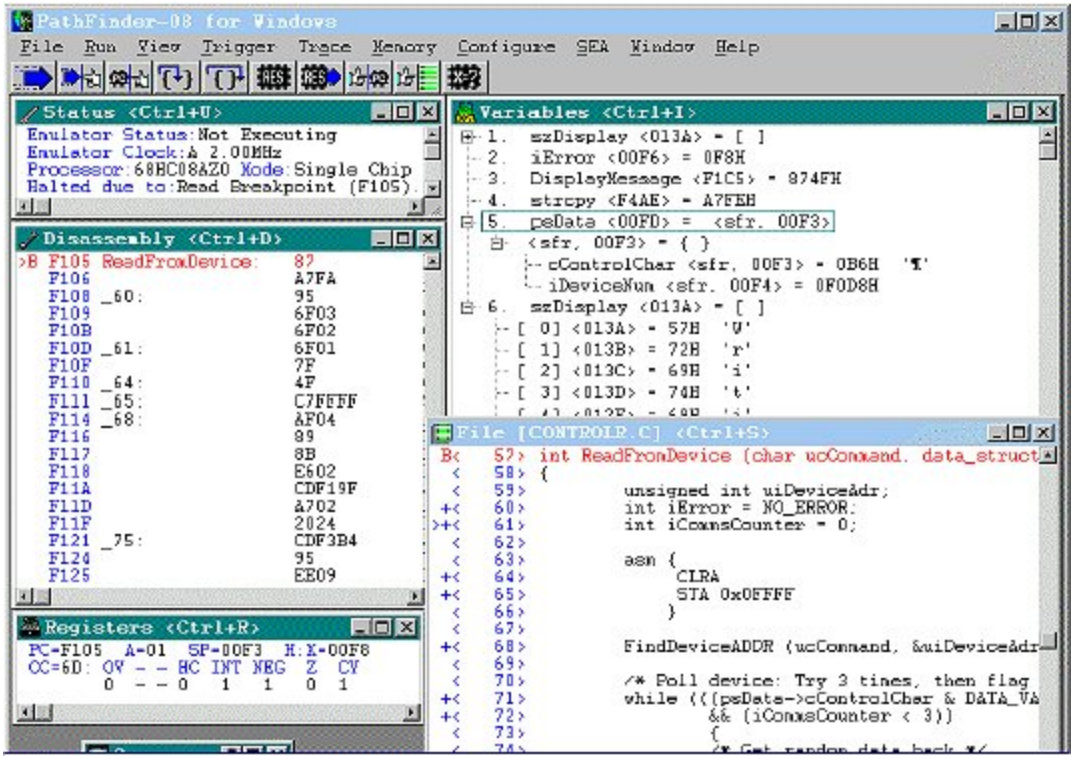
Ashling's "PathFinder" software provides the source-level debugger and user-interface for the CT68HC11. PathFinder supports all 68HC11 compilers and assemblers including Cosmic, Hiware, IAR and Introl. PathFinder provides Special Function Registers (SFR), internal RAM, memory, variables, processor stack, function-call stack and register windows. PathFinder's Macro (script) Language supports automatic test sequences.

Host

PC with Windows®95, Windows®98, Windows®Me or WindowsTNT. Standard RS232 Serial Port.

Performance Analysis and Code Coverage options

Ashling's SEA-11 Performance Analyzer (System Execution Analyzer) is a built-in real-time, high-speed measurement instrument for embedded software optimization and verification. SEA measures the minimum, maximum or total execution time of a function, module or program in an embedded application. The CTMS-11 (Code Test Management System) option is an integrated Code Coverage Measurement option within the PathFinder debugger.



PathFinder *provides real-time in-circuit emulation and source-level debugging for MC68HC11 programs in C or assembler, with mouse, command-line, accelerator key and button-bar controls.*

Emulator Specification

Emulator memory
64KB memory, expandable to 1MB using optional SEB11 Bank Switched memory expansion board.

"On-the-fly" monitoring, using dual-port RAM**.**
On-chip RAM and peripheral registers. Emulator and Target memory. Symbolic disassembly. In-Line Assembler with full instruction set and symbols.

Triggers
2 multiple trigger event recognizers
Up to 10 addresses and/or data ranges per event
Symbolic, binary or hex entry
Boolean combinations of events for start/stop triggers

Trace
2K frames by 80 bits trace memory
Trace address, data, ports and external probe
Display trace in C source, assembly or cycle-by-cycle

Clock
Up to 6MHz E-clock (24MHz crystal)

Breakpoints
Break-before-execute breakpoints (no "skid")
64K real-time instruction breakpoints (up to 1M using SEB11 Expansion Board option)
64K read and write breakpoints (up to 1M using SEB11 Expansion Board option)
Break on frames after stop trigger
Break on trace buffer full

Variables
Full expression handling for C. Variable monitoring, including arrays and structures. Full support for variable monitoring during emulation ("On-the-Fly"). Object-oriented tree structure display of variables.

Single-Stepping
Single Step, Multiple Instruction Step, Step over Function, Step into function, Return from function, Step over Library functions. Step at High Level or Assembler level.

Macro Language
Powerful C-like macro test language can control, monitor and log all of the functions of the Emulator. Automatic testing of software and hardware.

Bank-Switched Support for 68HC11F1, 68HC11K4
Full PathFinder software support for 68HC11F1 and 68HC11K4 Bank-Switched program loading and debugging.
Full support for 68HC11F1 and 68HC11K4 Bank-switched MMU.
Optional SEB11 System Expansion Board provides 1MB Bank-switched overlay memory and bank-switched breakpoints.

Product Configuration
Stand-alone In-Circuit Emulator with in-circuit probe, and standard serial connection to PC. Supplied with user-manual and software.

Device Support *Please specify device when ordering*

68HC11A0/A1/A8 68HC11C0/C1 68HC11D0/D3 68HC11E0/E1/E2/E8/E9/EA9/E20 68HC11F1 68HC11G0/G5/G7 68HC11K0/K1/K4 68HC11L0/L1/L6 68HC11PA8 68HC711KA2/KA4 68HC11KA2 68HC11KW1 68HC11M2 68HC11N4 68HC11P2 68HC11PH8

Power Supply
Built-in power supply 115V 60Hz or 230V 50Hz or 100V 50Hz

Upgrade Path
All CT68HC11 systems can be easily field-upgraded to a different processor type. Ashling's Development Support Co-operation Agreement with Freescale (Motorola) ensures that a full range of development-support tools is provided for each new derivative.

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