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Data Sheet

August 2, 2026

ASHLING

Ashling CT68HC11 Real-Time In-Circuit Emulator

Ashling CT68HC11 Real-Time In-Circuit Emulator The Ashling CT68HC11 is a real-time in-circuit emulator (ICE) development system for the Motorola/Freescale 68HC11 microcontroller family and derivatives. It replaces the target MCU in-circuit for hardware debugging, source-level development, and performance analysis. The system uses Ashling PathFinder as the Windows-hosted debugger interface and supports interchangeable probe/cable assemblies for different 68HC11 packages and derivatives. CTMS code coverage and SEA real-time performance analysis tools are part of the Ashling development environment. The Ashling CT68HC11 is a real-time in-circuit emulator (ICE) development system for the Motorola/Freescale 68HC11 microcontroller family and derivatives. It replaces the target MCU in-circuit for hardware debugging, source-level development, and performance analysis. The system uses Ashling PathFinder as the Windows-hosted debugger interface and supports interchangeable probe/cable assemblies for different 68HC11 packages and derivatives. CTMS code coverage and SEA real-time performance analysis tools are part of the Ashling development environment. 68HC11 firmware development and debug; in-circuit hardware bring-up; source-level C and assembly debugging; code coverage and non-statistical performance analysis on 68HC11 designs.



MODEL	CALIBRATION
Ashling CT68HC11	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
CT68HC11	https://aumictechlabs.com/products/ct68hc11-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ashling CT68HC11 is a real-time in-circuit emulator engineered for the Motorola/Freescale 68HC11 microcontroller family and all derivatives. It delivers non-intrusive, real-time emulation with a complete Windows-hosted development environment for hardware debugging, source-level debugging, and software performance analysis across ROM (single-chip), ROMless (external memory), and on-chip EEPROM/EPROM/Flash configurations. Technical Specifications Emulation & Memory Real-time in-circuit emulation for MC68HC11 devices and derivatives 64KB of emulator memory, expandable to 1MB with optional SEB11 Bank Switched memory expansion board Dual-port RAM for on-the-fly monitoring Bank-switched breakpoints and overlay memory support via optional SEB11 System Expansion Board Supported Development Modes ROM (single-chip) operation ROMless (external memory) configurations On-chip EEPROM/EPROM/Flash modes Key Features PathFinder Source-Level Debugger Integrated debugging interface supporting C and assembler program development. Compatible with Cosmic, Hiware, IAR, and Introl 68HC11 compilers and assemblers. Debug access includes Special Function Registers (SFRs), internal RAM, memory, variables, processor stack, function-call stack, and register windows. Control via mouse, command-line, accelerator keys, or button-bar interfaces. Macro language enables automated test sequences. SEA-11 Performance Analyzer (System Execution Analyzer) Built-in, real-time measurement instrument for embedded software optimization. Provides non-statistical measurement of minimum, maximum, or total execution time across functions, modules, or complete programs. CTMS-11 Code Coverage Measurement System Integrated code coverage analysis option within PathFinder for test verification and code assessment. Hardware Architecture Stand-alone modular system design with integrated power supply and interchangeable probe cards. Compatibility & Integration Supports both C and assembler language development. Works with industry-standard 68HC11 compiler toolchains including Cosmic, Hiware, IAR, and Introl platforms.

Features & description

From manufacturer datasheet

Features

- Real-time in-circuit emulator for 68HC11 family
- Modular stand-alone system with power supply
- Interchangeable probe cards/cables for derivatives and packages
- PathFinder source-level debugger (Windows)
- SupportsCand assembler program development
- CTMS code coverage measurement system
- SEA real-time, non-statistical performance analyzer
- Banking/MMU support on applicable derivatives (example: 68HC11K/KW class)

CT68HC11 Characteristics / Specifications

PARAMETER	VALUE
Model	CT68HC11
Manufacturer	Ashling Microsystems
Instrument Type	Real-time in-circuit emulator (ICE)
Target Family	Motorola / Freescale 68HC11 and derivatives
Host Software	PathFinder for Windows (Ashling)
Probe/Cable	derivative-specific (example listing: ICE68HC11-NM R1 for 68HC11K4 84-pin class)
Development Tools	CTMS code coverage; SEA performance analyzer
Form Factor	Modular ICE mainframe with replaceable target probe Standard Operating Conditions Select probe/cable assembly matched to target MCU package and derivative. Install PathFinder and required host interfaces per Ashling documentation. Observe target voltage and clocking limits for the installed probe revision.
Legacy ICE product	confirm probe availability for your exact 68HC11 part number and package. Do not quote maximum emulation frequency or breakpoint counts without the specific CT68HC11/probe datasheet for the installed configuration.
Banking/MMU support on applicable derivatives (example	68HC11K/KW class)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance analysis. The system uses Ashling PathFinder as the Windows-hosted debugger interface and supports interchangeable probe/cable assemblies for different 68HC11 packages and derivatives. CTMS code coverage and SEA real-time performance analysis tools are part of the Ashling development environment.

Applications

68HC11 firmware development and debug; in-circuit hardware bring-up; source-levelCand assembly debugging; code coverage and non-statistical performance analysis on 68HC11 designs.

Key Features

- Real-time in-circuit emulator for 68HC11 family
- Modular stand-alone system with power supply
- Interchangeable probe cards/cables for derivatives and packages
- PathFinder source-level debugger (Windows)
- SupportsCand assembler program development
- CTMS code coverage measurement system
- SEA real-time, non-statistical performance analyzer
- Banking/MMU support on applicable derivatives (example: 68HC11K/KW class)

Technical Specifications

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Development Tools	CTMS code coverage; SEA performance analyzer
Form Factor	Modular ICE mainframe with replaceable target probe

Standard Operating Conditions

Select probe/cable assembly matched to target MCU package and derivative. Install PathFinder and required host interfaces per Ashling documentation. Observe target voltage and clocking limits for the installed probe revision.

Operational Notes

Legacy ICE product-confirm probe availability for your exact 68HC11 part number and package. Do not quote maximum emulation frequency or breakpoint counts without the specific CT68HC11/probe datasheet for the installed configuration.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.