

Atmel-ICE

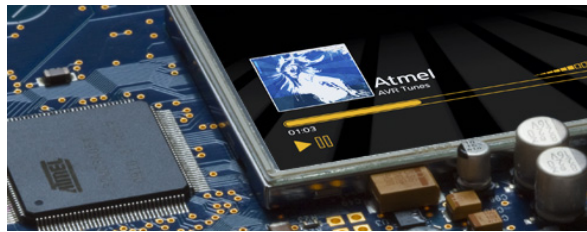
Overview

Devices

Documents

Applications

Related Tools



Atmel-ICE is a powerful development tool for debugging and programming Atmel ARM® Cortex®-M based Atmel SAM and AVR® microcontrollers with on-chip debug capability.

Atmel-ICE supports:

- Programming and on-chip debugging of all Atmel AVR 32-bit MCUs on both JTAG and aWire interfaces
- Programming and on-chip debugging of all Atmel AVR XMEGA® family devices on both JTAG and PDI 2-wire interfaces
- JTAG and SPI programming and debugging of all Atmel AVR 8-bit MCUs with OCD support on either JTAG or debugWIRE interfaces
- Programming and debugging of all Atmel SAM ARM Cortex-M based MCUs on both SWD and JTAG interfaces
- Programming of all Atmel tinyAVR® 8-bit MCUs with support for the TPI interface

Key Features

- Supports JTAG, SWD, PDI, TPI, aWire, SPI and debugWIRE interfaces
- Full source-level debugging in Atmel Studio
- Supports all built-in hardware breakpoints in the target microcontroller (number depends on the OCD module in the target)
- Up to 128 software breakpoints
- 1.62 to 5.5V target operation
- USB powered
- Provides both ARM Cortex Debug Connector (10-pin) pin-out and AVR JTAG connector pin-out

Ordering code: ATATMEL-ICE

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Software Description

- | Software | Description |
|---|--|
|  | AVR BSDL files
(129333, updated October 2009)
Zip archive with BSDL files for Atmel AVR devices. |
|  | megaAVR BSDL files
(79760, updated October 2009)
Zip archive with BSDL files for Atmel megaAVR devices. |



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Microcontrollers

- AVR 8- and 32-bit MCUs
- 32-bit AVR UC3 MCUs
- AVR XMEGA MCUs
- megaAVR MCUs
- tinyAVR MCUs
- Battery Management MCUs
- Automotive AVR MCUs
- SMART ARM-based MCUs
- 8051 Architecture

Touch Solutions

Automotive

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Memory

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Products

- Microcontrollers
- Touch Solutions
- Automotive
- Wireless Connectivity
- Smart Energy
- Memory
- Security ICs
- More Products

Applications

- Automotive
- Building Automation
- Home Appliances
- Home Entertainment
- Industrial Automation
- Lighting
- Internet of Things
- Smart Energy
- Mobile Electronics
- PC Peripherals

Technologies

- Low Power
- High Performance
- Touch
- Wireless
- CPU Core
- Secure Technology

Design Support

- Tools and Software
- Documentation
- Training
- Communities
- Support Resources
- Third-Party Tools/Support

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