

# Atmel-ICE



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

For more information, please visit the [Online User Guide](#).

## 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