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.

Atmel-ICE kit contents:
- ATATMEL-ICE: Encapsulated main unit, USB cable, 10-lead squid cable, flat cable (10-pin 50mil connector and 6-pin 100mil connector) and adapter board (20-pin 100mil connector, 6-pin 50mil connector and 10-pin 100mil connector)
- ATATMEL-ICE-BASIC: Encapsulated main unit, USB cable and flat cable (10-pin 50mil connector and 6-pin 100mil connector)
- ATATMEL-ICE-PCBA: PCB assembly of main unit only, no cables
- ATATMEL-ICE-ADPT: 10-lead squid cable, flat cable (10-pin 50mil connector and 6-pin 100mil connector) and adapter board (20-pin 100mil connector, 6-pin 50mil connector and 10-pin 100mil connector)
- ATATMEL-ICE-CABLE: Flat cable (10-pin 50mil connector and 6-pin 100mil connector)

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 Information

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1 Backlog orders can be placed for items currently not available.
2 Suggested retail price per unit for budgetary use only.