

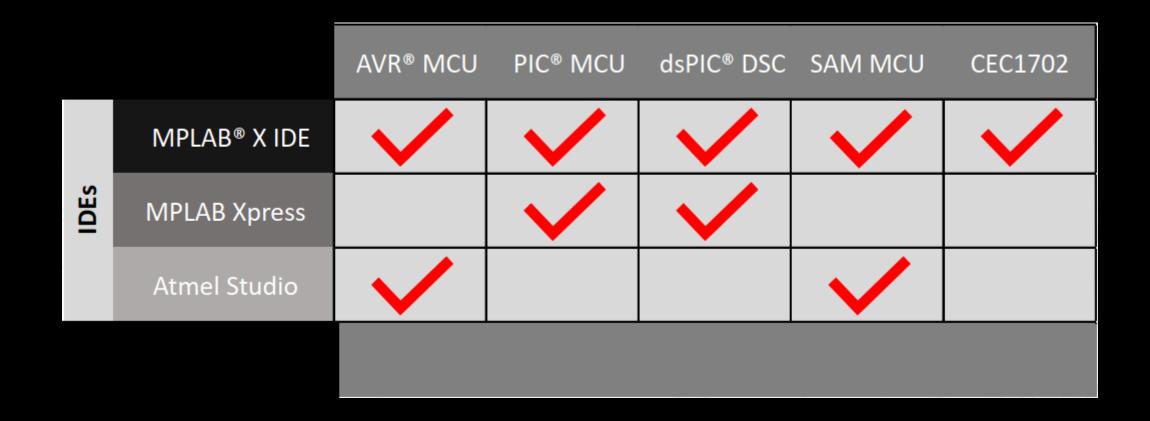
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Microchip IDEs

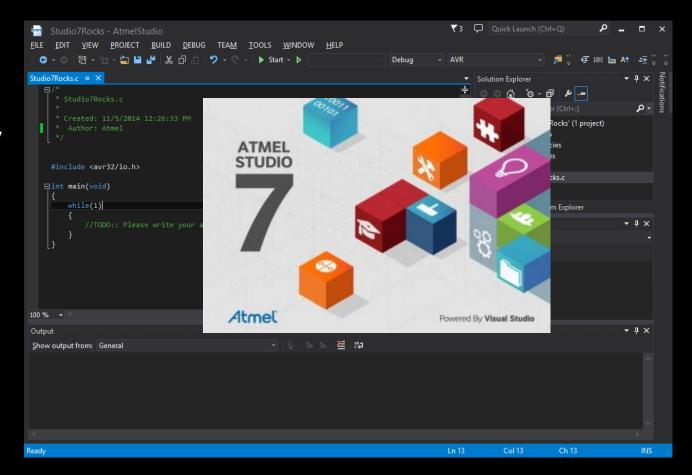






Atmel Studio

- > Professional IDE for coding
- > Based on Microsoft Visual Studio
- > Support all Atmel devices: from Tiny to Cortex-M7
- > Free Compiler (GCC)
- > No Linit on Flash Size
- > FREE!



Atmel Embedded Software

> Atmel Software Framework

- > 2000+ examples & reference designs
- > Common API across AVR & ARM MCUs
- > ASF Explorer wizard with automated dependency management in Studio

> Atmel Gallery

- > Extension manager integrated in Atmel Studio
- > ~100 Free, eval & 3rd party commercial software packages & plug-ins available
- > Moderated by Atmel for content quality

> Next Gen ASF - ASFv4

- > Targeting better performance, lower flash and ram footprints
- > simple, consistand interfaces
- > Production ready code shortens time to market





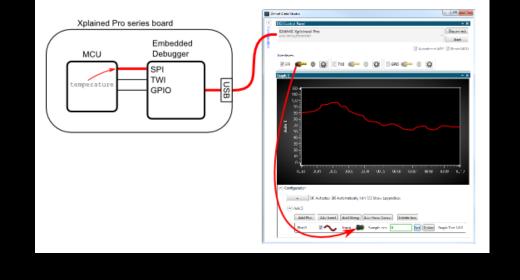
Atmel Data Visualizer

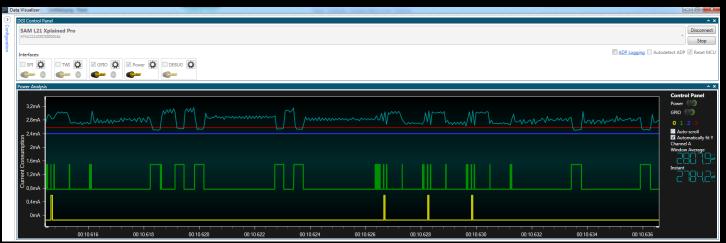
>Available in Atmel gallery

- > Processes and renders data collected while debugging
- > Uses EDBG Data Gateway Interface, or serial port on custom boards
- > Renders GPIO, SPI, TWI, USART.. Today.
- > Roadmap covers touch, motor feedback, wireless...
- Power data supported starting with SAML21-XPRO

> Can run as stand alone application

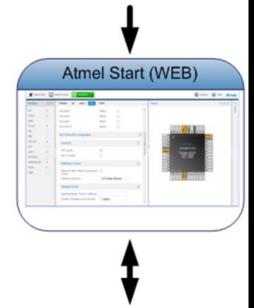
> Pluggable view in Studio 7, stand alone for other IDEs





- **Explore and configure software & devices**
 - > Repository of Atmel Products and supporting device drivers & software components
 - > Select from Atmel, 3rd party and Open community SW components
- > Visual software and device configuration
 - > Device Pin mux & System clock
 - > Peripheral SW Configuration
 - > Middleware & Example SW Configuration
 - > Code generation & delivery
- > No installation Web based, Central part of Atmel Open Dev Platform
- > Software package delivery to any IDE



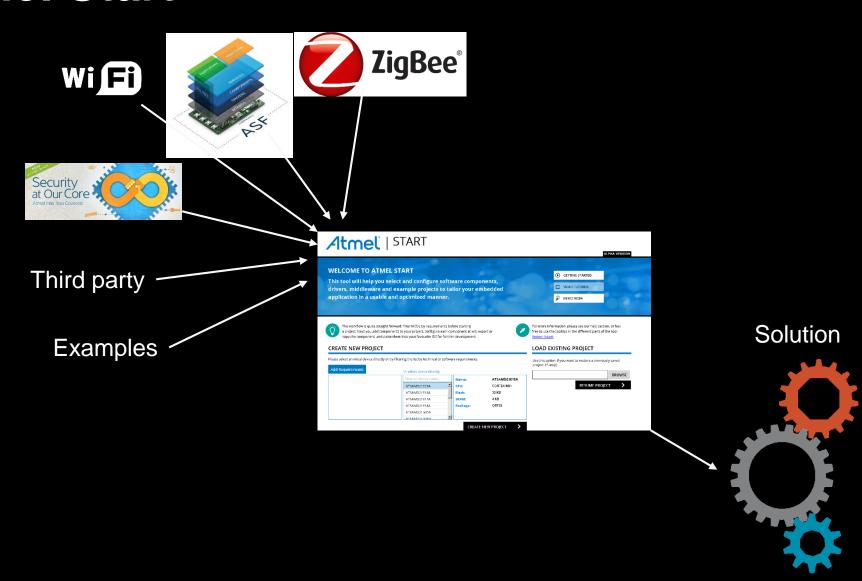




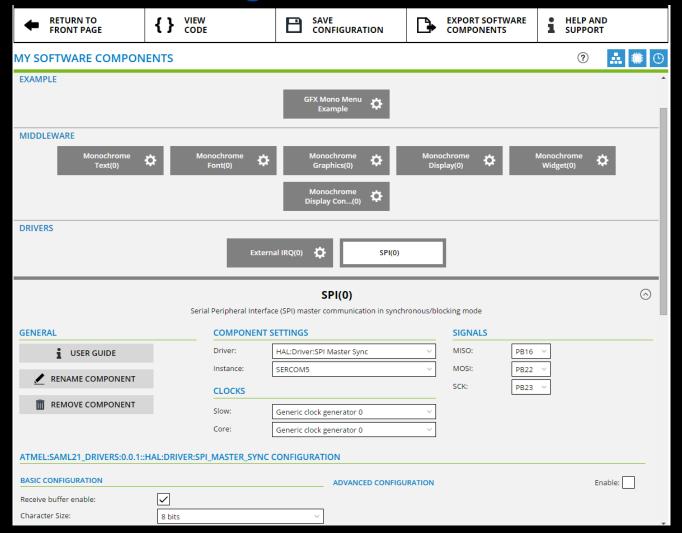






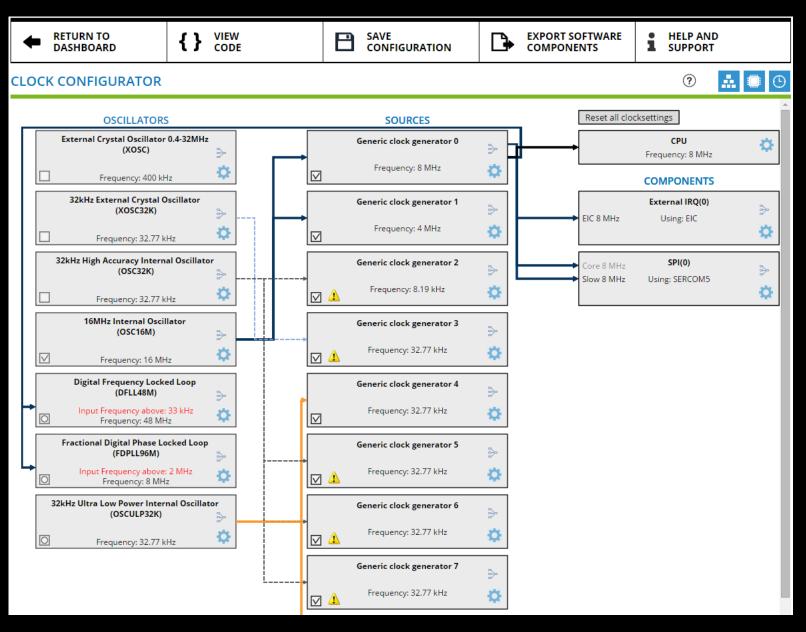


Dashboard and software configuration



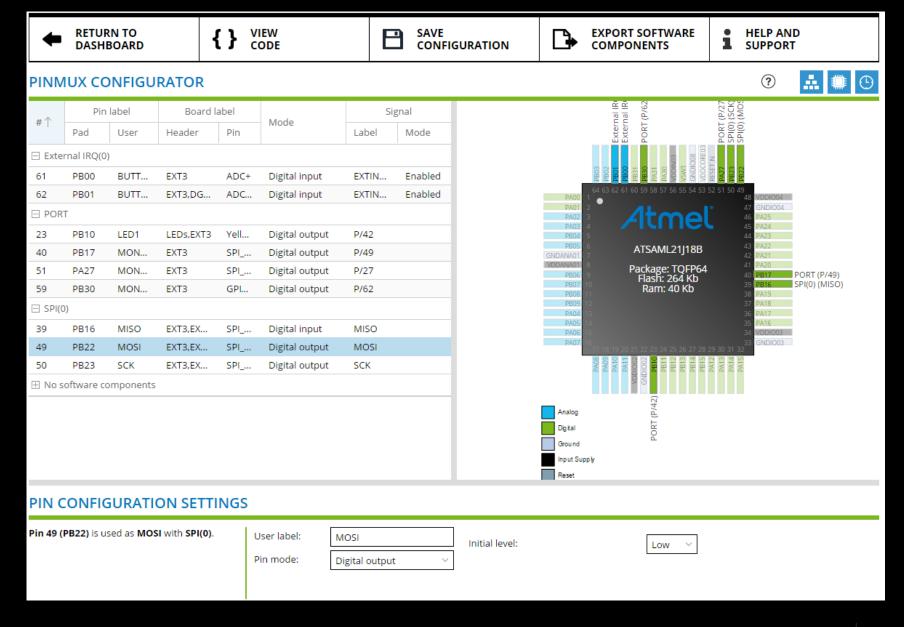


Clock configuration





Pin configuration





- > What it is or will be
 - > Software deployment engine
 - > SW/HW configuration engine
 - > Dependency management
 - > Atmel solutions/Example explorer
 - > Code generator
 - > Analytics on usage

- > What it isn't
 - > Replacement for Atmel Studio/IDEs
 - > Debugger/Programmer
 - > Intended to replace device selector on atmel.com

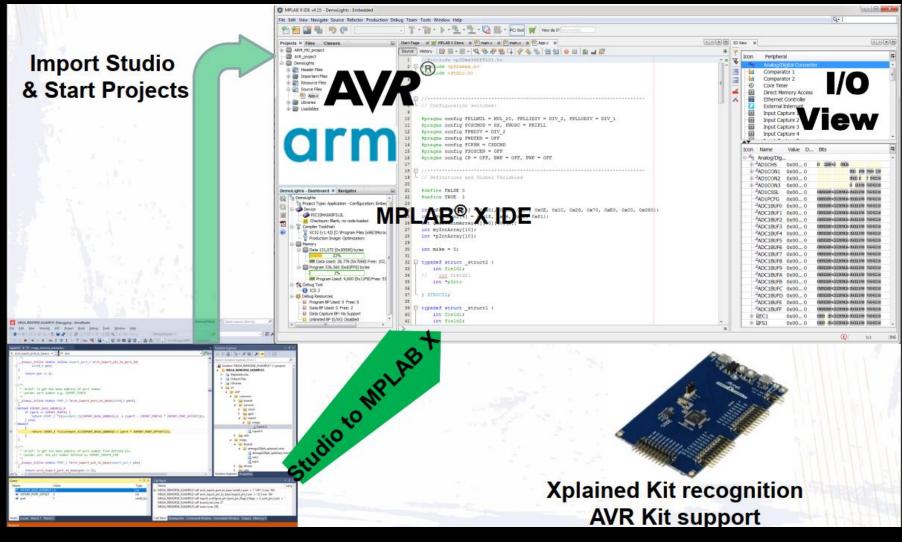




- > Support PIC, dsPIC, AVR, and SAM devices
- > Supporting: Windows, Linus and macOS
- > Supporting many compilers:
 - > AVR and ARM GCC
 - > MPLAB XC8/16/32
 - > Third party
- > Support many Debuggers/Programmers
 - > MPLAB ICD 4, MPLAB PICkit 4, MPLAB Snap
 - > Atmel-ICE
 - > SEGGER J-Link



What's new?



Plug-ins for additional features

- > FreeRTOS viewer
- > Doxygen Integration
- >LDRA Rules
- > Advanced breakpoint GUI
- > Proteus VSM simulation

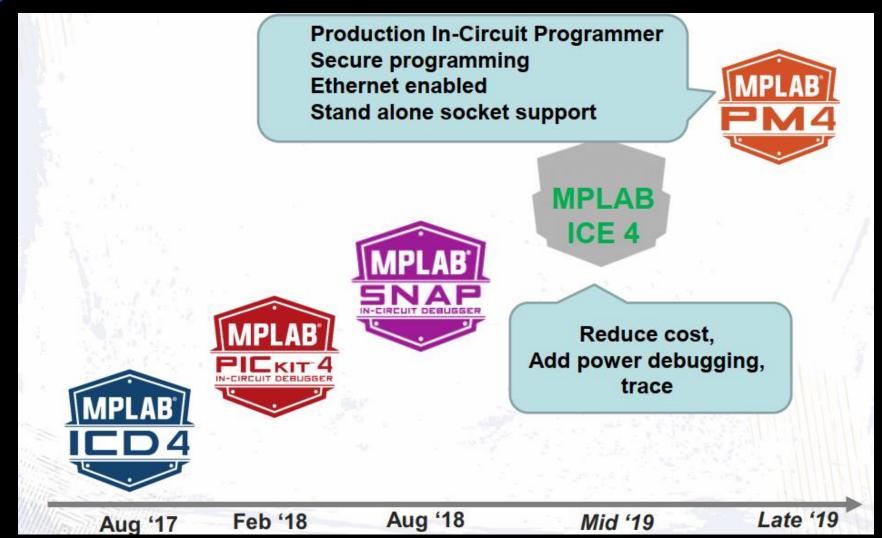
Future

- > Context sensitive help
- > Scripting support on envents
- > Code coverage support for XC compiler
- > Distribution of device support as a separate payload
 - > Smaller install base
 - > Update support without new tools
 - > Only install devie support needed



Debugger/Programmer

Roadmap



Debugger/Programmer

Roadmap

