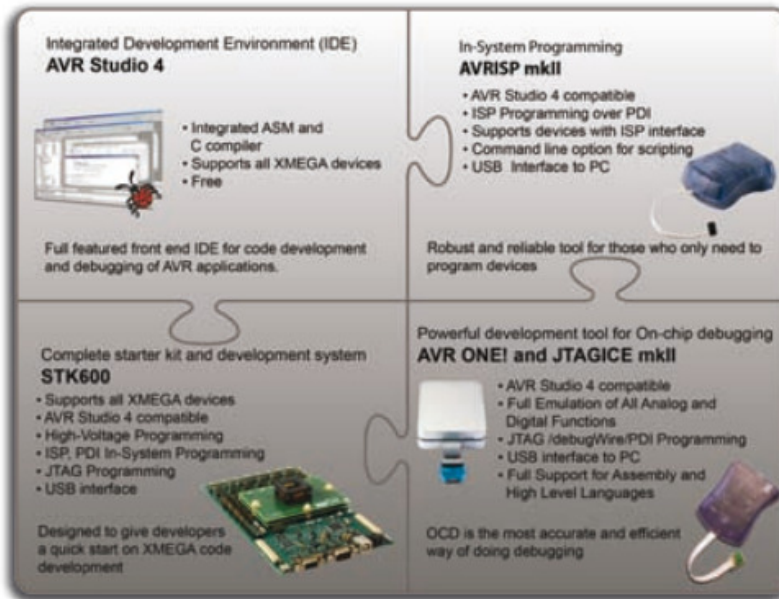


## Ease of use

AVR XMEGA microcontrollers benefit from the already existing AVR tools- and software chain. With a large ecosystem including hardware, software, documentation, and partners available, embedded developers will find it easy to succeed with the XMEGA!

### AVR Tools – quality and low cost



### Debugging and Programming

All XMEGA devices include a non-intrusive On-Chip Debug system that requires no device resources. This gives real time access to all peripheral registers, data and program memories, and support unlimited number of break points. XMEGA has a fast, serial programming interface for production line- or in system programming. Using a bootloader XMEGA can receive flash upgrades in the field through any interface without reset or halt of critical program execution. The crypto engine and a serial number in each device ease implementation of safe crypto bootloaders, networking applications, authentication and life cycle product tracking.

### AVR Documentation and Software – ready, steady, go!

With both devices and tools available designers need good documentation. From the smallest devices to the largest processors, reference datasheets describing features and use are available from the Atmel web pages. Free application notes and library with complete code make it easy to start development. Partner software brings your product to the market with no hassle.