

Technical support

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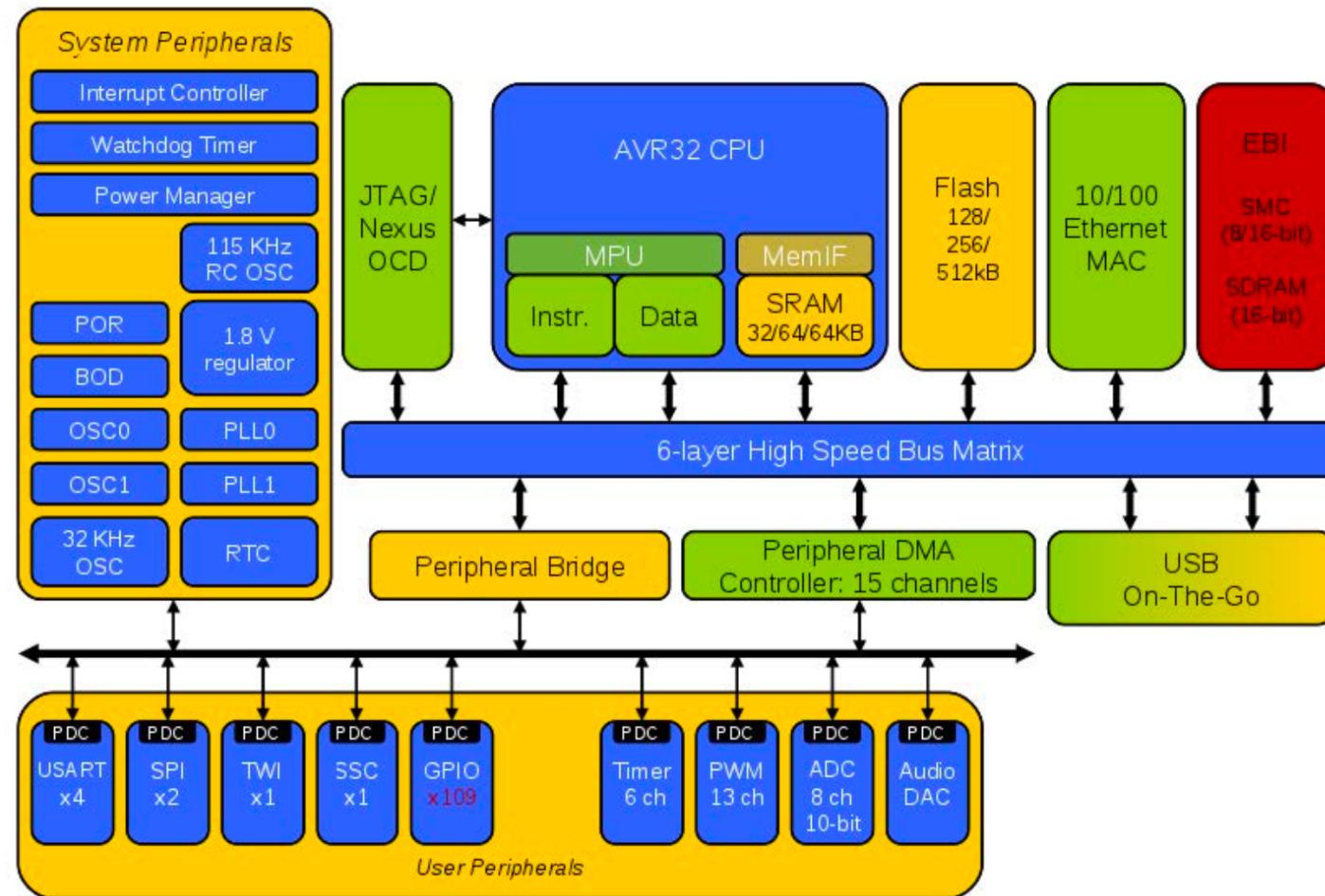
EVK1100 development board

- Includes a AVR32UC3A microprocessor
 - 3-stage pipeline Harvard architecture
- Peripherals
 - Interrupt controller, watchdog timer etc
 - USART, SPI, GPIO, PWM etc



EVK1100 development board

AT32UC3A0

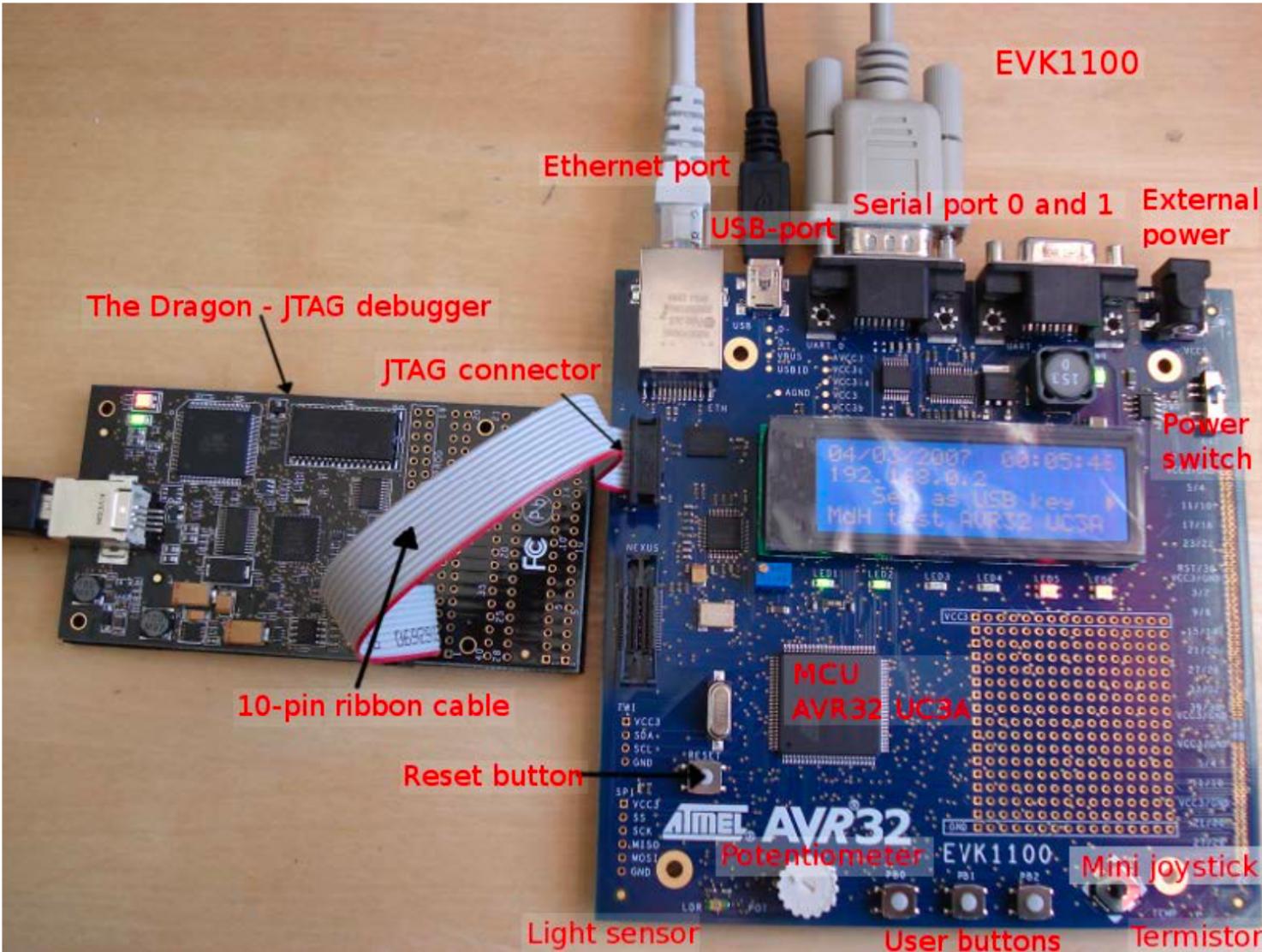




Required equipment

- EVK1100 Development board (Dev. Board)
 - USB cable or power adapter to power the EVK1100
 - The Dragon JTAG debugger
 - 10-pin ribbon cable with block headers
 - Be aware about the connection
 - Pin 1 to pin 1 match
 - USB cable for powering and communicating with The Dragon
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- Make sure you return everything in the end of the course!

Required equipment





Software to install

- Atmel Studio 7
- Serial terminal connected via RS-232 to the development board
- The EVK1100 board can be programmed and debugged using a device called The Dragon (More info on Canvas)
 - Instructions.pdf



Code

- Defines of constants, like GPIO_PUSH_BUTTON_0 etc is found in the file
 - {project}/src/SOFTWARE_FRAMEWORK/BOARDS/EVK1100/evk1100.h
- Each task a stacksize of 64 int's
- After initialization of tasks and the OS the code will run forever in a while loop



Documents to get started

- AT32UC3A0 datasheet
- <http://ww1.microchip.com/downloads/en/DeviceDoc/doc32058.pdf>
- EVK1100 schematics
- http://ww1.microchip.com/downloads/en/DeviceDoc/EVK1100_SCHEMATICS_REVD.pdf
- More documents in the zip file on Canvas
- Read “Instructions.pdf” BEFORE you connect the hardware
- Reach out to me if anything is unclear about the hardware and how to connect it!



In need of technical support?

- Wednesdays afternoon
 - Email me at the latest the day before on the working hours (zenepe.satka@mdh.se)
 - Describe your problem
 - Remember I'm here to guide you, not to tell you how to write the code