Inventek Systems
Embedding Connectivity Everywhere

Options for Updating Firmware on EVB and Module

Using EVB to Update Firmware on Module

Use the procedure documented on **page 28** of Inventek's **eS-WiFi Demo Software Help Guide** found at:

http://www.inventeksys.com/wp-content/uploads/2012/12/eS-WiFi_Demo_Help_r3.0.pdf
Here is a link to a short video also showing this procedure:
http://www.youtube.com/watch?v=k4xwVNunoAw
Note: Once you have updated your firmware you should also reset the flash to factory defaults.

Updating Firmware on Assembled Module

For modules that are already assembled on a PC main board or carrier board, there are two options available.
1.   Use a JTAG 10 pin header or directly connect to the JTAG pins on the board. Use the ST-LINK/V2 Debugger/Programmer to flash the STMicroelectronics microcontroller.
Below are links to the ST-Link and JTAG header at Digikey:
http://www.digikey.com/product-detail/en/ST-LINK%2FV2/497-10484-ND/2214535
The 10-to-20 pin JTAG adapter module is Digi-Key PN 726-1193-ND
http://www.digikey.com/product-detail/en/MDL-ADA2/726-1193-ND/1986451

2.   You can also update the STMicroelectronics microcontroller over the UART with the AT firmware update command "ZU".   Run the following ST utility to use the built-in boot loader on STM32F205.
  - Start Flash Loader Demo
http://www.st.com/internet/com/SOFTWARE_RESOURCES/SW_COMPONENT/SW_DEMO/stm32-stm8_flash_loader_demo.zip
  - Issue a "ZU" command
  - Disconnect from the serial port
  - Click "Next" on the Flash Loader Demo

Over the Air Updates

Over-the-air update capability is currently being developed and the scheduled release date is April 2013.   Flash memory connected to the SPI interface is required for OTA updates.