Programming ZigBee

Program Demonstration

Disconnect this jumper allows the board to communicate with connected PC.
Connecting this jumper allows a program in flash to run automatically when powered on.
Running “Hello World” Program

1. Connect the MCF5208EVB to a host PC using a serial port.
2. Start SBCTools and edit the demo programs: DemoSMACHost main.c as shown in the slides, in this case just remove the comments lines.
3. Compile and build the code and save to the flash of one 5208 board as a comm. Host.
4. Connect jumper #2 so that the program will run automatically next time powered up.
5. Now edit DemoSMACRemote, compile, build, and run.

The board with DemoSMAC_Remote is connected to the PC. The board with DemoSMAC_Host starts program automatically when powered is turned on.
Now the board with DemoSMAC_Host is connected to the PC.
The board with DemoSMAC_Remote starts program automatically when powered up.

Print out from DemoSMAC_Host:
- Link quality, and # of trials
- "Hello World!" after abort button is pressed

More print out of the "Hello World!" every time after abort button.

Summary

1. We have developed a simple ZigBee communication program to transmit a "Hello World!"
Message from a remote computer to host computer.
2. SBCTools is used in this program example, other tools are similar.
3. Developing ZigBee wireless communication applications should be fairly straightforward, and similar to other C program development.