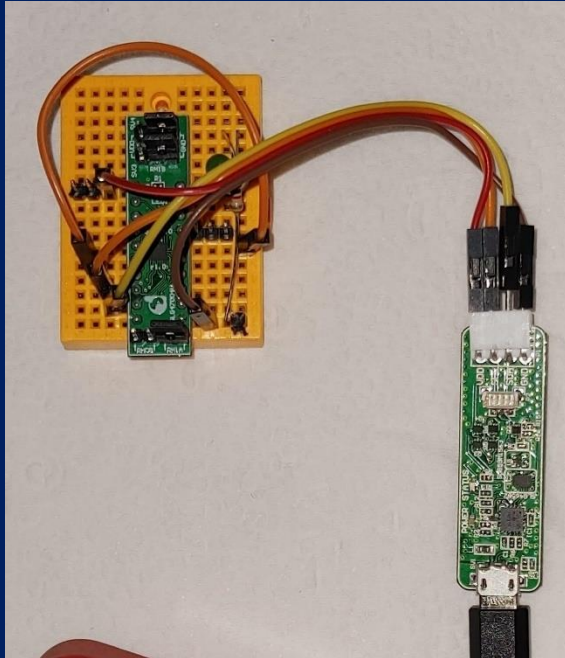


Comparison of Quercus to Serial Debugger



Existing FPGA programming method

"Serial Debugger" Mouser part#
724-SLG4DVKGSD. Price: \$25.
(Currently unobtainium).

Serial Debugger

- upload of FPGA code from GoConfigure to FPGA via USB port

Quercus

- initial Ant firmware installed on ESP32 via USB port
- upload of FPGA code from GoConfigure handled by Aardvark running in a web browser
- after wireless transfer of FPGA code to ESP32, Ant firmware programs the FPGA
- ESP32 based board creates an application platform w/ Features such as:
 - wireless programming of the FPGA using Aardvark
 - running user code on ESP32 alongside Ant firmware **
 - wireless transmission of data back to Aardvark **
 - over-the-air updates to Ant firmware **
 - Aardvark communication with multiple FPGAs **

** not yet implemented