

# SLVARC 20130615

Forth on the TI Launchpad

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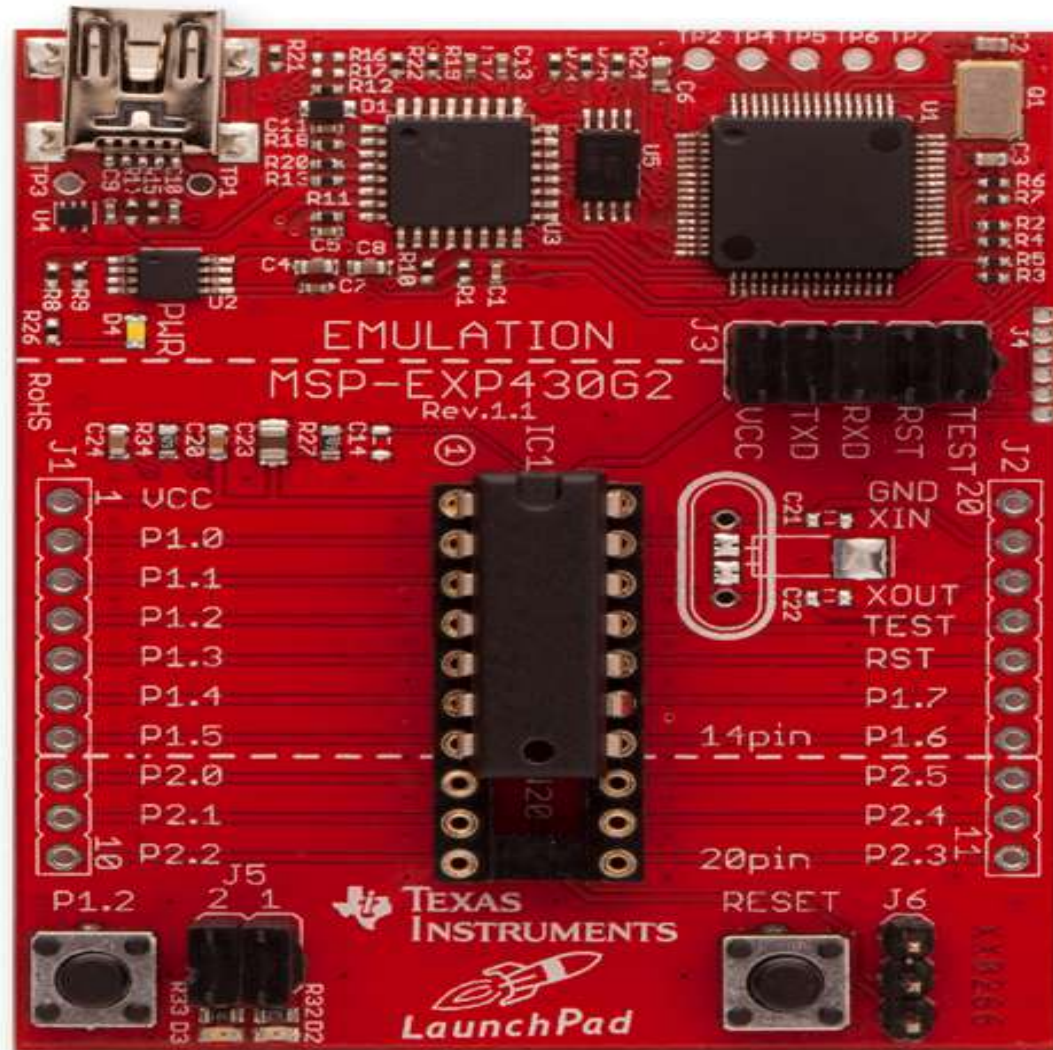
[glen@worstell.com](mailto:glen@worstell.com)

[www.ti.com/launchpad](http://www.ti.com/launchpad)

# TI Launchpads

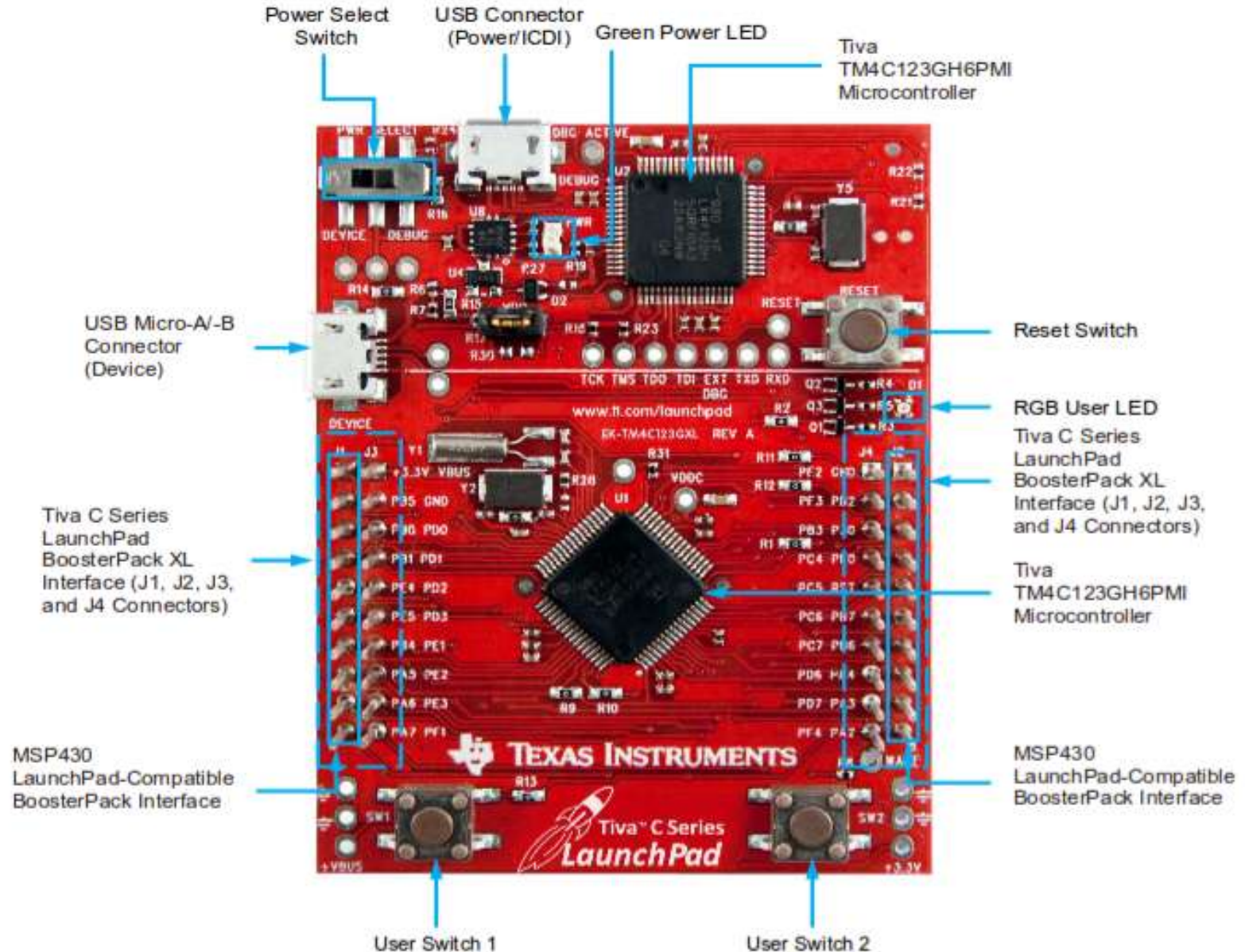
- Low cost experimenter's breadboard
- MSP430 Version, \$10
- ARM Cortex M4F Version, \$14
- Much more hardware bang-for-the-buck than, eg, Arduino
- Various free software

# MSP430 Launchpad



# ARM Launchpad

Figure 1-1. Tiva C Series TM4C123G LaunchPad Evaluation Board



# Forth on the MSP Launchpad

- Camel Forth
  - <http://www.camelforth.com>
- Mecrisp
  - <http://mecrisp.sourceforge.net/>
- 4e4th
  - <http://www.4e4th.com/>
- Spend \$\$\$ (various)

# Forth on the ARM Launchpad

- Mecrisp (early beta)
- Pygmy Forth (modify for launchpad)
  - <http://pygmy.utoh.org/riscy/cortex/>
  - Hosted, good for small memory micros
- CoreForth (modify for launchpad)
  - <https://github.com/ekoepfen/CoreForth>
- Spend \$\$\$ (various)

# Other ARM processors

- Becoming much more hobby friendly
  - DIP and SOIC packages
  - Some free IDEs
  - Many vendors
  - Way, way more bang-for-the-buck than Arduino
- Development tools expensive and/or complex
- Forth may be a low-cost simple development environment
- See a full-fledged talk (next month?)