

Conclusion

Conclusion / Call to Action

Conclusion Demos

- (Simple) Drive [UCC28070](#) PFC Controller
MSP430 (Revisit Square Wave)
- (Complex) Neopixel controlled wirelessly from
iPad (Fun)

Joe George, Northeast Digital Field Applications

Texas Instruments

Americas Sales and Marketing

Complex Demo - Block Diagram

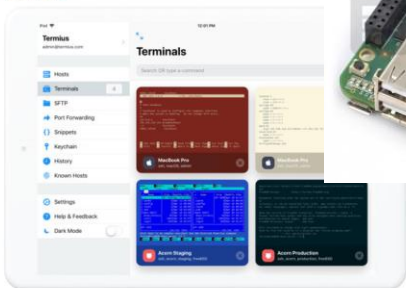
(Embedded prototype demo - Wireless Control of LCD and Neopixel)

Add Neopixel controlled wirelessly from iPad



Smartphone/iPAD (WiFi STA)

Designed for iPad



Termius App SSH

USB Power

USB0

Cortex-A8

Wilink8

UART0

eMMC/SD Card

USB1 HUB

BB Green Wireless AM3358 (WiFi STA)

Neopixel

GPIO

USB

Cortex-M4

MSP432P SimpleLink



USB

RF

Cortex-M4

CC3220 SimpleLink SDK Wi-Fi (WiFi AP)



Energia

USB

LCD CTLR

MSP430

MSP430FR4133 LCD



Agenda

- Fundamentals (mostly for AFA)
 - Implementing necessary prototyping functions such clocks/GPIO, Read A/D, I2C, etc.
 - Seamless interface of various Analog EVM's for customer “proof of concept”
 - Standalone UI - Button (GP Input - GPIO), LCD Display (“Hello”), Music, Serial Interface (Putty)
- More UI (i.e. GUI Advanced Comm Tab basically Putty/Serial I/F) - Lessons learned from home networking (if you can setup the WiFi in your house, you can prototype with a few steps)
- EP - Embedded prototyping (mostly for DFA)
 - Wired and Wireless Control
 - Use of TI Cloud Computing Tools for prototype
- Advanced Topics
- Conclusion Demos (Simple and Complex)

Bonus Topics (Brainstorm)

- Beaglebone Black
 - HDMI for Gnome “Desktop” UI (Debian)
 - Remote Desktop i.e. GUI over network (Arago)
- Internet Access
 - Internet USB to Ethernet dongles (Debian)
 - Wilink8 Multirole as Gateway
- Making of Cecil, Stages 1 and 2 picture
- Blast from the past
 - KaraWin
 - Satellite Broadcast Demo
 -