



# The UbER-Badge

Beta Hardware Wrap-Up

# Features carried over from prototype

- Texas Instruments MSP430F149 low-power processor with 60kB of Flash and 2kB of Ram
- Efficient power supply
- Up to 256MB of data flash storage
- 12-bit 40kHz Audio I/O with onboard mic and connector for speaker or external mic
- Pager motor

# New Features



- Improved RF design and antenna design
- RF section on daughtercard (w/integrated flash 8051) allowing it to be embedded in other applications, connected to PCs, or work standalone
- Denser LED matrix. Was 4x8, now 5x9
- Improved IR communication gives substantially improved range



# New Features continued

- 3-way side-mounted navigation switch
- Ability to use a 4x20 character LCD instead of the LED matrix
- Ability to use a super-slim LCD along the top edge of the case for wearer interface

# Unit Cost @ 400 pcs



- \$65.00 for components (including all optional features)
- \$8.00 for pcbs
- \$20.00 for stuffing
- \$10.00 approximate cost for case materials and hardware



To Do

- Application Development/Beta Testing
  - Latest version badges are available now, just come over to 1CC and assemble one, pickup a TI development kit, and start coding
- Final case/mechanical design
- Fabrication