Tiny Wireless Sensor Node: Eco

- Size:
  - 1 cm³, 2 grams include battery & antenna!
- RF: 1 Mbps, 10 meters range
- Battery life: 4 Hrs (40 mAh)
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Top View

Switching Regulator (LTC3410)

Tri-Axis Accelerometer

16-Pin Expansion Port (Flexible PCB)

uC + 2.4GHz Radio (nRF24E1)

Chip Antenna (AN9520)
Expandability

Eco VGA Camera

Top View

Development Board

Side View

Charger Board

Camera Battery Eco
EZ-Gate

- Ethernet-ZigBee Gateway
- Network processor ARM926
- Runs Linux
- Two USB ports
- Addition: Eco base station
  - USB 2.0, 12Mbps
  - bridges between ZigBee & Eco
Example: tilt sensing for remote control