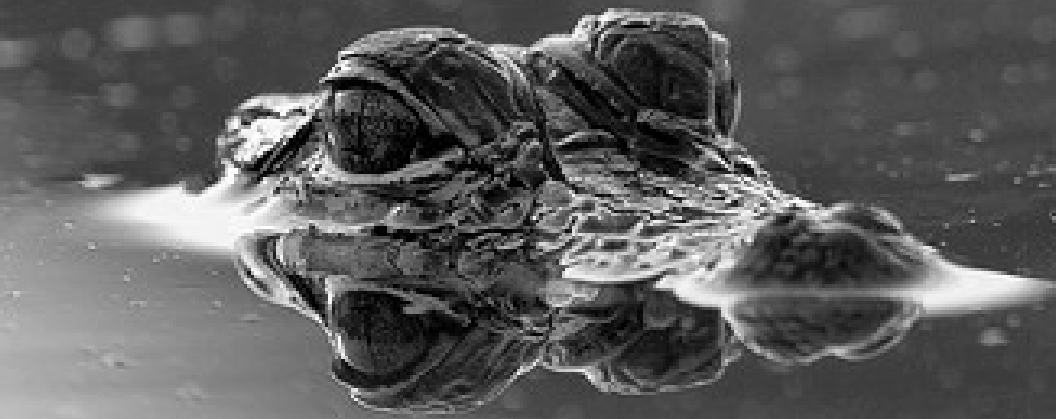


Eval Board

Care and feeding Instructions



General

- Don't lose it!
 - Put your name/email on your board, cables, and plastic case.
 - ..
put label on plastic case.
 - Don't leave it laying around:
it looks cool, and might "wander off"
 - 1 student left on bus.

General

- Plugging/Unplugging

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- plugging/unplugging the cape, or connecting pins to headers!

- (1 student fried BBG by shorting 5V to something)

- USB and Ethernet be OK to hot-swap.

- Power board from 5V

- Use either USB, or some power pins on headers.

- (1 group fried a BBG by powering from 12V)

Electrostatic Discharge (ESD)

- Static electricity can very easily damage electronics.
 - The high static voltage will "punch through" the electronics making them malfunction.
 - Especially problematic in..
 - Don't wear fuzzy slippers and a polar fleece robe while working on board.
- Ground yourself before touching board
 - Touch unpainted metal case of power supply, or USB port on your grounded desktop PC.
- Take care when using push buttons.
 - Don't press buttons with metal pen, pencils, etc.
 - Try not to touch chips on board or headers.

Pin capabilities

- BeageBone's CPU..
 - The AM335x microprocessor runs at 3.3V
 - Does not tolerate 5V applied to its pins: doing so can fry the CPU.
 - 1 student shorted 5V to GPIO pin; board dead
 - Some pins are 5V, others are 3.3V (USB is 5V).
 - Don't cross the streams.
- Don't short power pins to ground.
 - 1 student did; board dead
 - 1 student ran 3.3V through an LED to ground (no resistor); board dead.



Liquids

- General idea:..
 - Keep your drink on the opposite side of your computer from the board.
- Cleaning if you do spill on your board:
 - Disconnect all cables & power.
 - Run board under water from tap for 10 minutes.
 - Dry it off well using...

Physical Damage

- Case should help protect board from falls.
 - Rubber feet should help prevent falls.
 - Come see me if suspect damage; may be repairable (at your expense).
- Carrying Suggestions
 - Transport board inside anti-static bag.
 - Protect board using the provided plastic box.
 - Make sure your name is on the case and cables
 - 90+ identical copies floating around!
 - Pickup circuit board by the edges.

Summary

- The board is yours!
Enjoy it, but take good care of it.
- Treat eval-board carefully;
it is good quality, but easily damaged.
 - Be careful about static electricity.
 - Keep liquids away from it.
 - Protect it from physical damage.
- Repairs to damage may be possible,
but likely at your expense.