Handling / Troubleshooting Your Microprocessor

- Do not leave your microprocessor in the labs unattended.
- Electrostatic Discharge (ESD) prevention measures should be applied whenever handling this product. *ESD damage is not a warranty repair item.*
- Input power is applied by external connection to the PWR power jack.
- Ensure that all IC devices in sockets are properly seated.
- Attaching additional wiring to this product or modifying the products operation from the factory default as shipped may effect its performance and also cause interference with other apparatus in the immediate vicinity. If such interference is detected, suitable mitigating measures should be taken.
- When connecting a serial cable to the board, make sure you're using a "straight-through" serial cable (such as the one provided).
- If you get an exception error or if your program "hangs" or appears to jump out into unused memory, it is usually caused by trying to access "un-mapped" or improperly configured memory addresses. Make sure you load your code to an address space that actually exists. See the Memory Map if you're not sure.
- If you're running in a multi-tasking environment (such as Windows™) close all programs in the background to be certain no serial conflict occurs.
- Application of RESET will cause the user application to initialize. Previous SDRAM memory content and operating state will be lost.
- User applications can change the clock setting under software control. Caution should be applied so that communication is not lost due to clock frequency and serial baud rate change.

The most common problems are improperly configured options or communications parameters.

1. Verify default option settings and RESET the board.
2. Make sure that the RSTI* line is not being held low or the RESET indicator is not on constantly.
3. Verify that your COM communications port is working by substituting a known good serial device or by doing a loop back diagnostic. If you applied a different baud rate with the dBUG SET command, make sure the terminal software is set correctly.
4. Verify the power source, +3.3V and +2.5V Indicators are ON? You should measure a minimum of 9 volts between the GND and +V test pad and GND test pad near the power jack with the standard power supply provided.
5. If no power indications or voltage is found, verify the wall plug connections to AC outlet and the PWR jack power connector.
6. Disconnect all external connections to the board except for COM1 to the PC and the wall plug and check operation again.

(adapted from portions of Axiom Microprocessor manuals, http://www.hitex.com/iuk/axiom/Miscellaneous/con_axiom.html)