

Poseidon Errata Sheet for Rev A SBCs

 Poseidon temperature specifications: Operating Temperature range--when the system is booted at 25°C: -10°C to 85°C
 Restart Temperature range--when the system is thermally soaked and power applied: 0°C to 85°C -- Poseidon 1GHz version 0°C to 65°C -- Poseidon 2GHz version

- The Poseidon CPU board does not power up reliably in <u>ATX bypass mode</u> when the CMOS battery is not present. Workaround: Install the CMOS battery.
- The initial shipments of Poseidon 1.0GHz SBCs have 256MB of RAM. All future Poseidon SBC shipments will have 512MB of RAM.

AD IRQ does not work properly in Windows 2000 or XP. Workaround: Add a "dummy" device that uses the desired IRQ to the system. For example if using data acquisition on IRQ 5, first install a COM port that uses IRQ 5. The base address of the port can be set to a random unused I/O range for the dummy device. After that the DSCUD drivers will interact with the data acquisition on that IRQ.

Step-by-step instructions are on the following pages.

Instructions on adding a "dummy" device to the system

- The first time you boot the Poseidon to a new Windows image you must follow these steps:
- Add a new device: Click on "Start," "Settings," then "Control Panel." Select "Add/Remove Hardware."

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• After selecting "Add/Remove Hardware," a window will pop up. Select "Next," then select "Add/Troubleshoot a device."



• Select "Next" and wait for the system to complete its search. Then select "Add a new device."

Which hardware device do you want to tr	oubleshoot?	
The following hardware is already installed	on your computer. If you are having pro	blems
with one of these devices, select the devi	ce, and then click Next.	
If you are attempting to add a device and device, and then click Next.	it is not shown below, select Add a new	
Devices		
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Unknown Communications Port (COM2) Communications Port (COM1) ACPI Fixed Feature Button Intel(r) 82802 Firmware Hub Device		

• Select "Next," then select "No, I want to select the hardware from list." Select "Next," then select "Ports [COM & LPT]."

l ardware Type What type of hardware do you want to i	nstall?	120
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Hardware types:	iristen.	
NT Apm/Legacy Support		
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Ports (COM & LPT)		
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• Select "Next," then select "Standard port types" in the left window and select "Communications Port" in the right window.

Select a Device Driver Which driver do you wan	to install for this device?
Select the manufacture	r and model of your hardware device and then click Next. If you
${\mathcal T}$ have a disk that contain	ns the driver you want to install, click Have Disk.
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- Select "Next," this will take you to the resource window of the device. Select "Basic configuration 0008," then click on "Input/Output Range" and assign value of "0128-012F" or any free resource.
- Click on "Interrupt Request" and assign value of "05." This step is **CRITICAL!** An "Interrupt Request" a value of "05" must be assigned. The Data Acquisition Jumper on the Poseidon must also be set to IRQ 5.
- If the resource window did not appear, click on the device in the device manager again and assign the resources.

I/Remove Hardware Wizard	
Add New Hardware Wizard Properties	Edit Input/Output Range
Resources	Enter the input/output range you would like to set for this device.
Unknown Device	You may either enter a specific range and the nearest valid range will be automatically selected, or you may select a range using the up and down arrows.
Resource type Setting Input/Output Range	This resource is assigned to the following child device(s):
Interrupt Hequest ?	Value: 0128-012F
Setting based on: Basic configuration 0008	Conflict information The setting you have chosen does not conflict with any other devices.
Conflicting device list:	No devices are conflicting.
No conflicts.	OK Cancel
DK Cancel	Add/Remove Hardware Wizard

Add New Hardware Wizard Properties	? ×	Edit Interrupt Request	<u>?</u> ×
Resources	C. C	Enter the interrupt request you would like to set for You may either enter a specific value and the near will be automatically selected, or you may select a up and down arrows.	this device. rest valid value value using the
Resource type Setting Input/Output Range 0128 - 012F Interrupt Request ? Setting based on: Basic configuration 0008 Image: Use automatic settings Change	×	This resource is assigned to the following child dev Value Conflict information The setting you have chosen does not conflict w devices. No devices are conflicting.	vice(s): with any other
Conflicting device list:			
No conflicts.	Lancel	OK	Cancel

• Click "OK," then "Next" and finally "Finish," completing the addition of the device. If the system asks to perform a reboot, please reboot the system.

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