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# **ASTi**

## **$\mu$ DACS Cold Start Procedure**

**Document: DOC-01-DACS-CSMD-1**



Product Name: ASTi  $\mu$ DACS

ASTi            ASTi  $\mu$ DACS Cold Start Procedure

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ASTi

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# $\mu$ DACS Cold Start Procedure

For clarity, this document refers to a slot on the  $\mu$ DACS chassis where CompactFlash® media is inserted as a “CompactFlash drive”, and the removable media upon which software is installed as the “CompactFlash module”.

## Overview

This document provides the user with instructions for correctly setting the  $\mu$ DACS BIOS and installing the operating system. There are two main reasons for using this procedure:

1. Rebuilding a damaged CompactFlash module
2. Creating spare CompactFlash modules

The CompactFlash modules must be cold started before Model Builder and its supporting files can be installed.

## Equipment Required

- ASTi  $\mu$ DACS product and power supply
- Monitor and USB keyboard
- ASTi Cold Start CompactFlash
- ASTi CompactFlash module (the module to be cold started)
- Tweezers or needle-nose pliers

## Initial Conditions

***WARNING: Ensure the  $\mu$ DACS is powered OFF prior to installing or removing any CompactFlash module.***

Monitor, keyboard and power supply are connected to the  $\mu$ DACS.

The CompactFlash module to be cold started is installed in the main CompactFlash drive on the front of the  $\mu$ DACS chassis, logo label side up.

The Cold Start CompactFlash module is installed into the Cold Start CompactFlash drive on the bottom rear of the  $\mu$ DACS chassis, logo label side down. (Refer to  $\mu$ DACS installation diagram: ASSY-01-DACS-INMD-1)

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## Configuring the BIOS

1. Immediately after system power-on or reboot, press the “DEL” key to enter BIOS Setup Menu.
2. Use the arrow keys, “ESC” and “Enter” to move between the sub-menus listed below.
3. Choose the “Load Setup Defaults” option.
  - a. Press the “Y” key followed by the “Enter” key to confirm changes.
4. Under the “Standard CMOS Settings” sub-menu, change or ensure the following settings:
  - a. **Drive:** Primary Master, **Type:** Auto, **Mode:** Auto
  - b. **Drive:** Primary Slave, **Type:** None, **Mode:** None
  - c. **Drive:** Secondary Master, **Type:** Auto, **Mode:** Auto
  - d. **Drive:** Secondary Slave, **Type:** None, **Mode:** None
  - e. **Halt On:** No Errors
5. Under the “BIOS Features Setup” sub-menu, change or ensure the following settings:
  - a. **Boot Sequence:** D,A,SCSI
6. Under the “Chipset Features Setup” sub-menu, change or ensure the following settings:
  - a. **16-Bit I/O Recovery (CLK):** 2
  - b. **8-Bit I/O Recovery (CLK):** 2
  - c. **USB Controller:** Enabled
  - d. **USB Legacy Support:** Enabled
  - e. **Onboard PCI LAN Chip 1:** Enabled
  - f. **Onboard PCI LAN Chip 2:** Enabled
7. Under the “Power Management Setup” sub-menu, change or ensure the following settings:
  - a. **Power Management:** Disabled
8. Under the “PNP/PCI Configuration” sub-menu, change or ensure the following settings:
  - a. **Resources Controlled By:** Manual
  - b. **IRQ–10 Assigned To:** Legacy ISA
9. Under the “Integrated Peripherals” sub-menu, change or ensure the following settings:
  - a. **Video Memory Size:** 1.5M
  - b. **Flat Panel Status:** Disabled
10. Press “F10” to save settings. Press the “Y” key followed by the “Enter” key to confirm changes.

## CompactFlash Formatting and DOS Installation

**WARNING:** *This will COMPLETELY ERASE the contents of your ASTi CompactFlash module.*

**WARNING:** *Ensure the  $\mu$ DACS is powered OFF prior to installing or removing any CompactFlash module.*

1. If you have not already done so, insert the ASTi Cold Start CompactFlash module into the back of the chassis, logo label side down. (Refer to  $\mu$ DACS installation diagram: ASSY-01-DACS-INMD-1)
2. Connect the power supply to the  $\mu$ DACS system via the power jack on the back of the chassis, and turn it on via the switch on the front. The system will fully boot to the "c:\\" prompt.
3. Type "install", press the Enter key, and follow the on-screen prompts.
4. Once finished, the system will display "Finished DOS installation. Please turn off your system and remove the Cold Start CompactFlash".
5. Turn off the  $\mu$ DACS system and carefully remove the Cold Start CompactFlash module using tweezers or needle-nose pliers.
6. Proceed to "ASTi  $\mu$ DACS Software Installation" (DOC-01-DACS-INMD-1) for instructions on installing Model Builder and its supporting files.

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