



CODONICS



*Infinity[®] Expansion Module
Reference Guide*

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Components

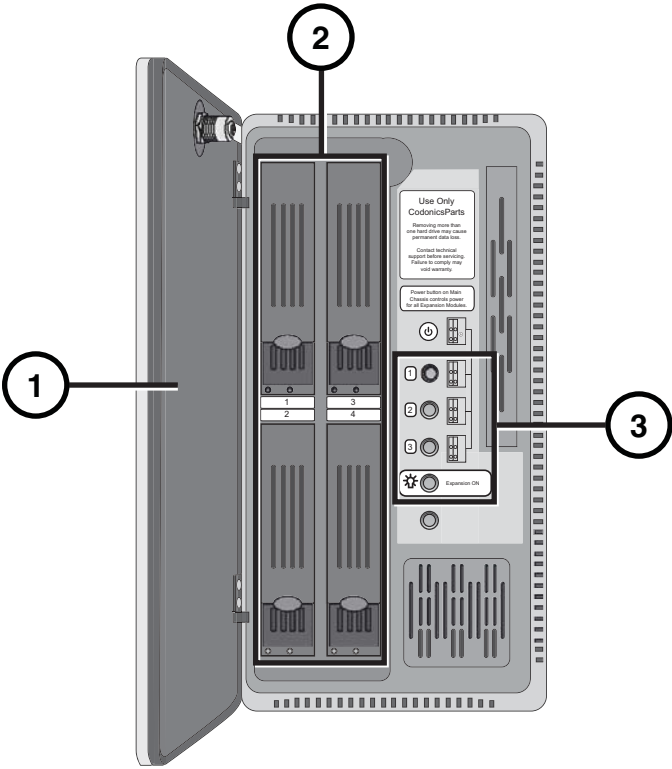
Unpacked Components



1. Expansion module
2. Expansion module key
3. AC power adapter
4. AC power cord

5. SAS cable
6. Numbered labels
7. Installation disc
8. User's Manual disc
9. Documentation

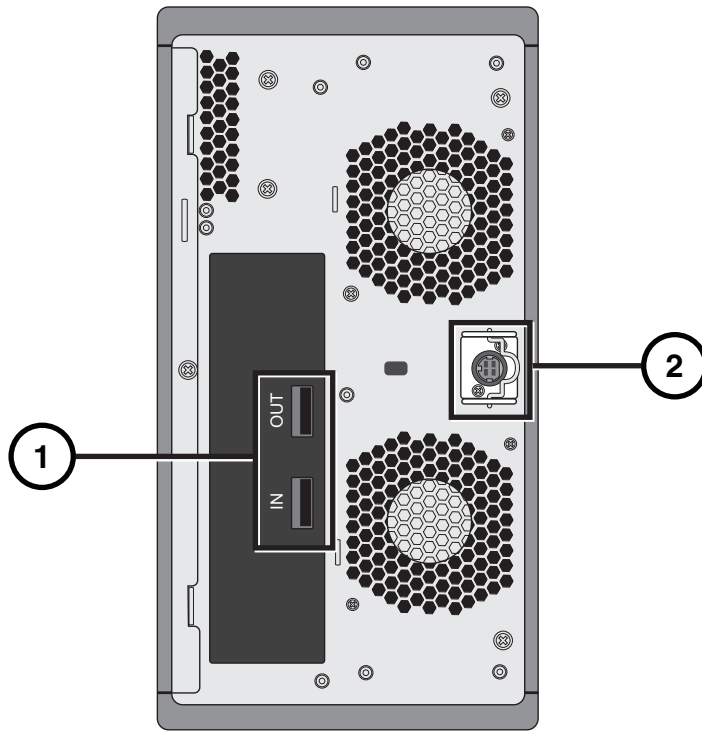
Expansion Module Front



- 1. Front door
- 2. Hard drives

- 3. Status lights

Expansion Module Rear



1. Serial Attached SCSI (SAS) ports

2. Power connector

Software Installation

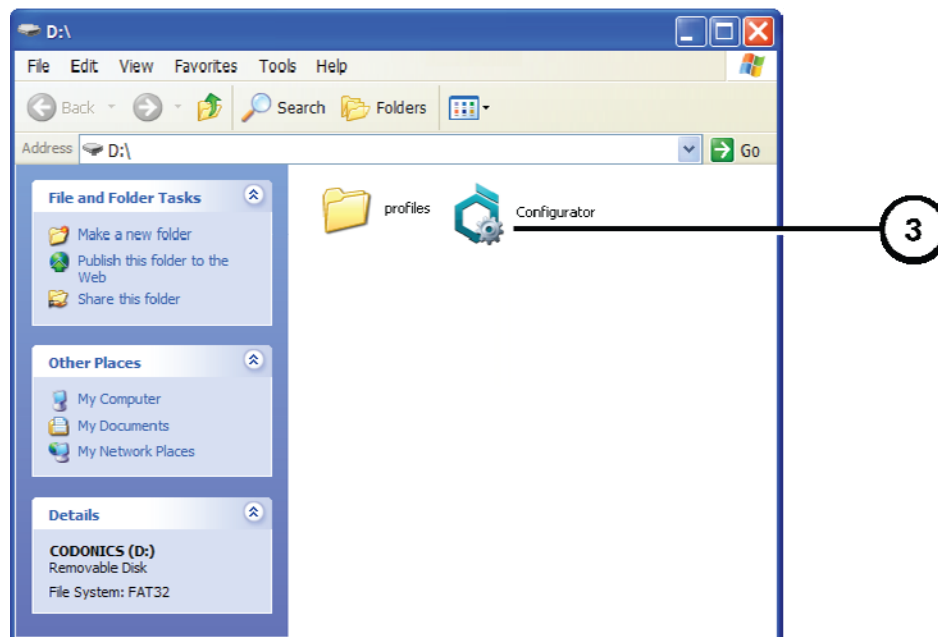
To support expansion modules, the Infinity software must be at v1.4.0 or later. If you have to upgrade the Infinity software, refer to the Infinity User's Manual.

Adding the Expansion Module Feature Key

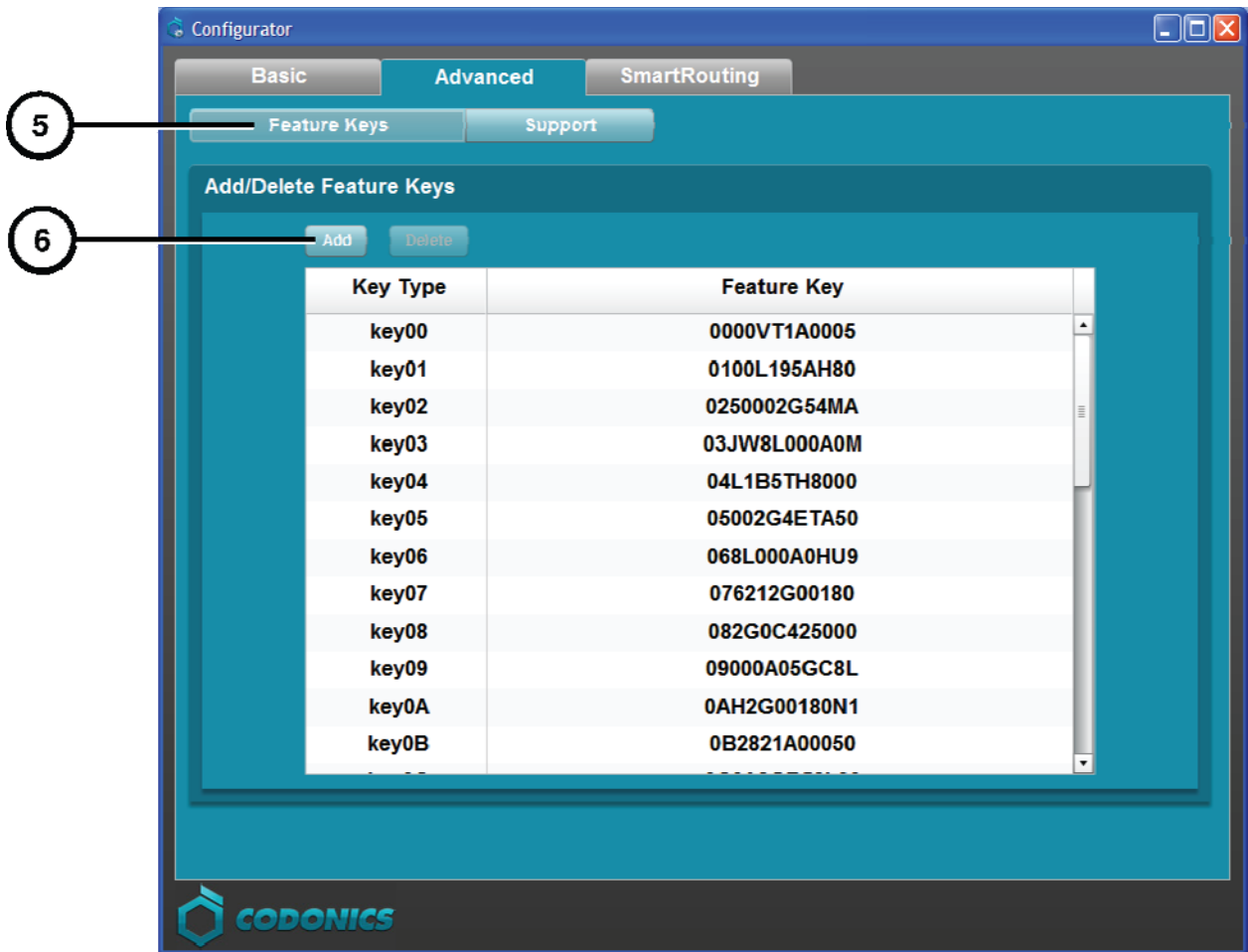
CAUTION: Do not reconfigure or modify the software except as described in configuration tasks documented in this manual.

NOTE: If you do not have the feature key for your expansion module, contact Codonics Technical Support (+1 440-243-1198) for the key.

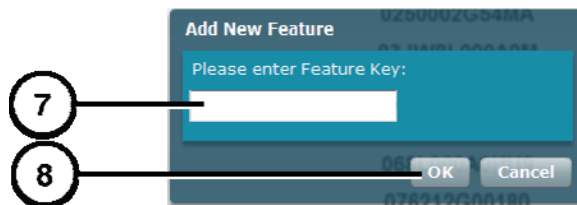
1. Remove the SmartDrive from the main chassis.
2. Connect the SmartDrive to a PC.



3. Run Configurator.exe.
4. To manage Feature Keys, click the Advanced tab.



5. Click the Feature Keys subtab.
6. To add a feature key, click the Add button.



7. Enter the Expansion Module feature key.
8. Click the OK button.
9. Return to the Basic tab.
10. Close the window.
11. Disconnect the SmartDrive from the PC.
12. Insert the SmartDrive in the main chassis.

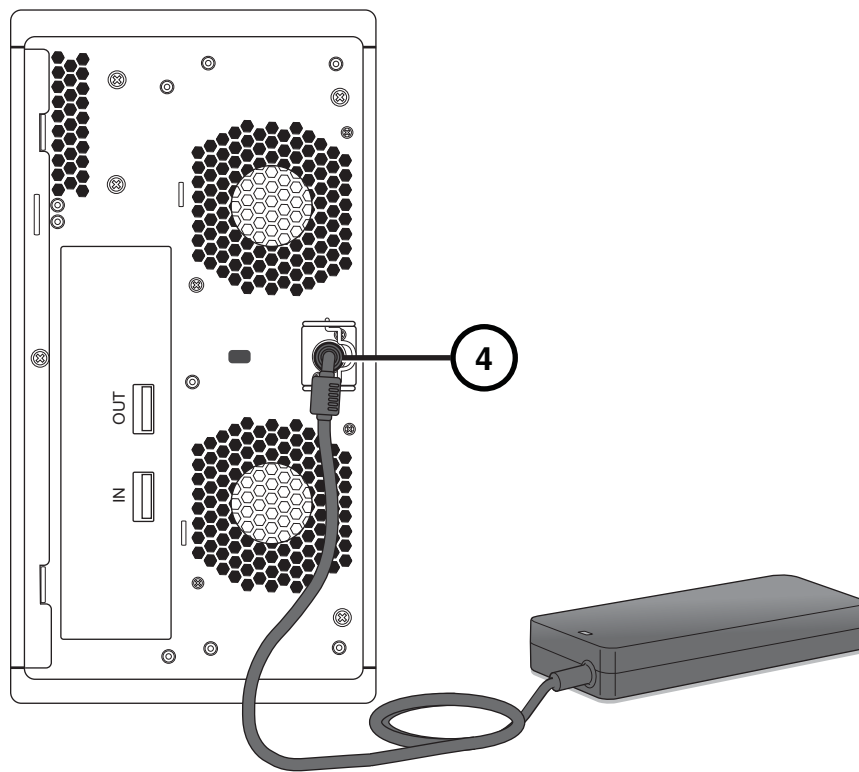
Hardware Setup

CAUTION: Only trained users should install and configure the system.

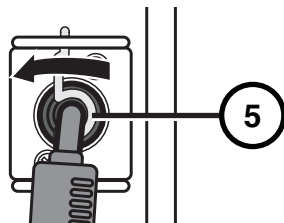
1. Shut down the Infinity system; refer to “System Shutdown” on p. 11.

NOTE: To properly start-up your expansion module(s), do not connect the new expansion module SAS cable to the Infinity or already configured Expansion module(s) until the current system is completely powered-off.

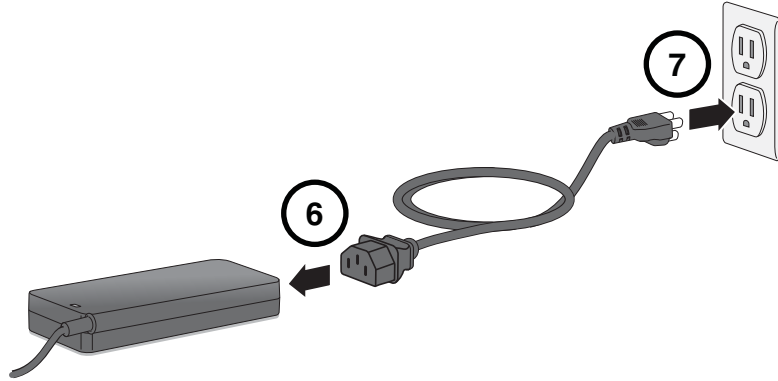
2. Unpack the hardware and remove any packing material.
3. Place the Infinity Expansion Module on a solid level surface.



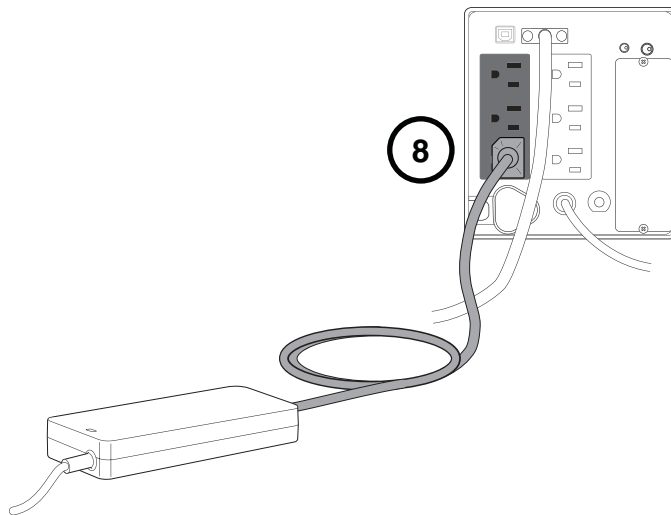
4. Connect the power cord from the AC adapter.



5. Secure the power cord with the attached retaining clip.



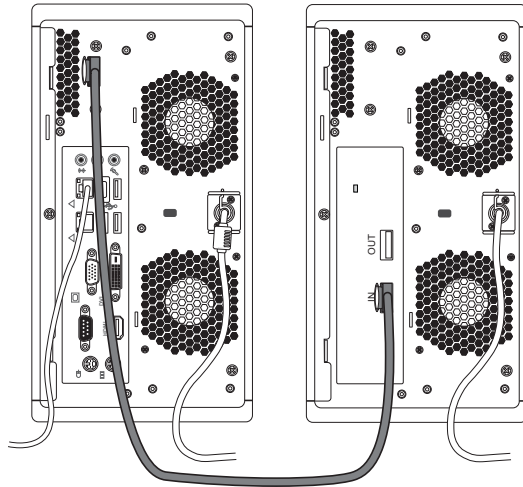
6. Connect the AC power cord to the AC adapter.
7. If not using a UPS, connect the AC power cord to a wall outlet.
If not using a UPS, a multiple portable socket outlet (MPSO) can be used for powering the system.



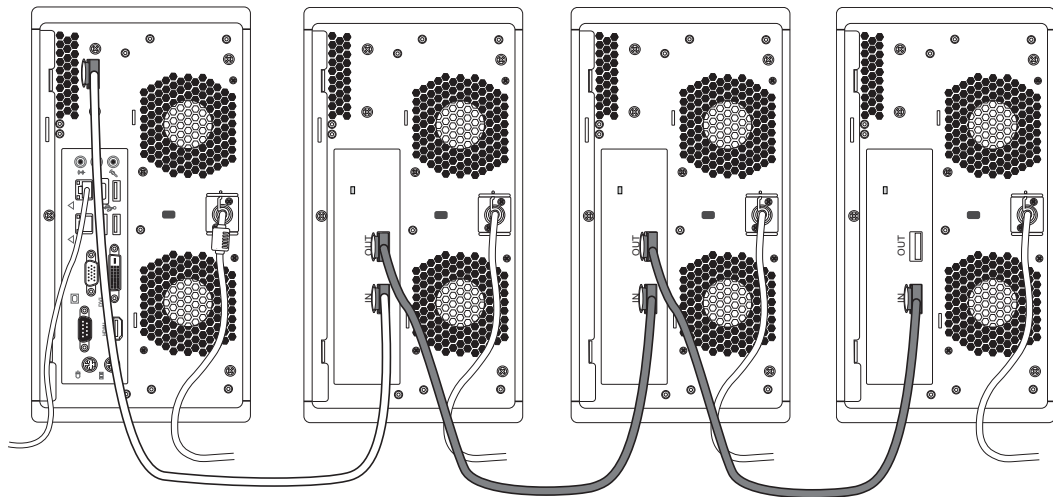
8. If using a UPS, connect the AC power cord to the UPS.

9. Connect the expansion module's SAS cable(s).

When connecting a SAS cable between the main chassis and the first expansion module in a chain, the cable connects to the main chassis' SAS connector and to the first expansion module's SAS IN connector, as shown in the following illustration.

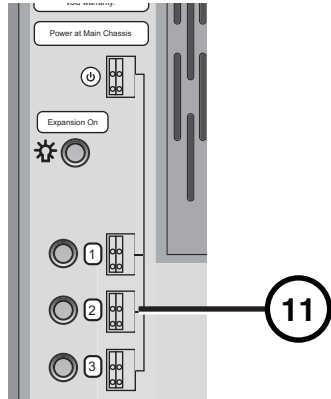


When connecting a SAS cable between expansion modules in the chain, the cable connects to the previous module's SAS OUT connector and the next module's SAS IN connector, as shown in the following illustration.



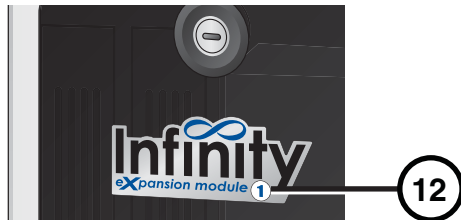
CAUTION: After the cables are inserted, make sure they are securely locked in place by pulling on the cable and ensuring that they do not slide out. Do not disconnect a SAS cable during system operation, as data could be lost.

10. Start up the system by momentarily pressing the Power button on the main chassis.



11. Observe the expansion module identification lights on the expansion module front panel. This will indicate which number has been permanently assigned to the expansion module.

NOTE: Expansion module 1 powers on about one minute after the main chassis has powered on. The other expansion modules in the chain power on in sequence according to their assigned module number.



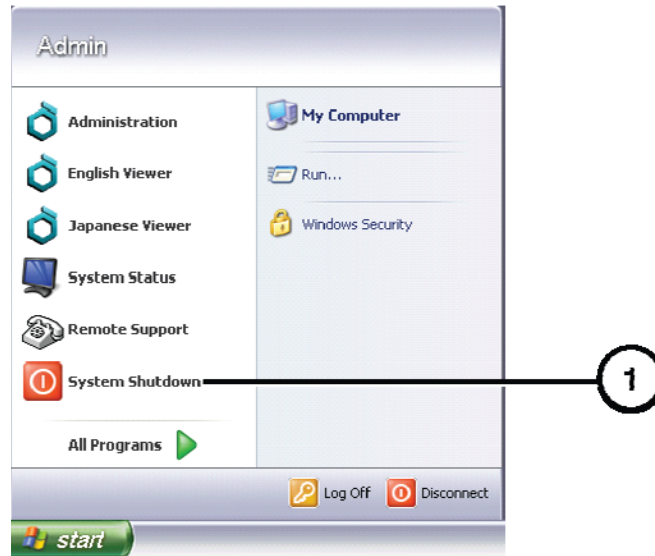
12. Remove the appropriate number label from the Infinity Expansion Module numbers sticker and apply it to the nameplate on the front door.

Troubleshooting

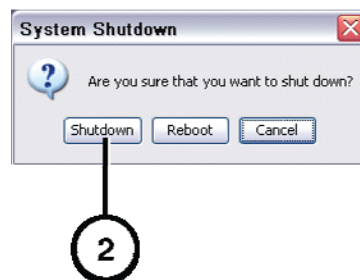
Problem	Solution
The AC power adapter failed.	Replace the AC power adapter.
The expansion module startup fails.	<p>Verify that the main chassis is powered on.</p> <p>Verify that the AC power adapter is connected at the rear panel of the expansion module.</p> <p>Verify that the AC power cable is connected to the power adapter, and that the power adapter is connected to an AC outlet or the UPS.</p> <p>Verify that the AC power adapter LED is on.</p> <p>Verify that the SAS cable is connected to both the expansion module and either the main chassis or another expansion module.</p>
The expansion module shuts down unexpectedly.	<p>Verify that the main chassis is powered on.</p> <p>Verify that the AC power adapter is connected at the rear panel of the expansion module.</p> <p>Verify that the AC power cable is connected to the power adapter, and that the power adapter is connected to an AC outlet or the UPS.</p> <p>Verify that the AC power adapter LED is on.</p> <p>Verify that the SAS cable is connected to both the expansion module and either the main chassis or another expansion module.</p>
The main chassis does not recognize the expansion module.	<p>Verify that the SAS cable is connected to both the expansion module and main chassis.</p> <p>Verify that the correct key for the expansion module was added in the Configurator tool.</p>
The System Status user interface indicates that one or more expansion modules are missing.	<p>Verify that all expansion modules are present, and that the SAS cables are properly connected between the main chassis and expansion modules in the chain.</p> <p>Verify that the expansion module(s) are powered on.</p>
A hard drive in the expansion module array is in a fault state (the hard drive activity light is red).	Replace or reinstall the failed hard drive.
The expansion module's entire RAID array is in a fault state (all hard drive activity lights are red).	<p>Contact Codonics Technical Support.</p> <p>Phone: +1-440-243-1198</p> <p>Toll Free: 800-444-1198 (USA only)</p> <p>E-mail: support@codonics.com</p>
The Infinity system indicates that the RAID battery needs to be replaced.	The RAID battery needs to be replaced. Contact Codonics Technical Support.

NOTE: For additional troubleshooting issues, refer to the Infinity User's Manual.

System Shutdown



1. In the Start menu of the remote desktop or local monitor, select **System Shutdown**.



2. Click the **Shutdown** button.

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