



# RazorSafe 7-Series Hardware Getting Started Guide

Release: AOS 5.0  
September 2010  
Part Number: 010-00822c

This manual supports Archiving Operating System (AOS) release 5.0 and later releases, and RazorSafe 7-Series appliances, until replaced by a newer edition.

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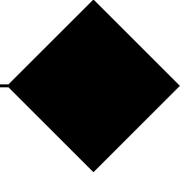
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# Mirapoint RazorSafe 170 (RS170) Installation

The following provides information and procedures for getting started with a Mirapoint RazorSafe 170 (RS170).



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Before performing the following procedures, review the safety instructions provided with the appliance.

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## Obtaining Technical Assistance

If you need help understanding a procedure in this guide or if the appliance performs unexpectedly, see [Additional Information](#) on page 15 and the *Mirapoint RazorSafe 170 (RS170) Hardware Guide*.

## Overview

Installing and configuring your appliance involves the following tasks:

- ◆ [Unpacking the Appliance](#) on page 6
- ◆ [Installing the Rails and Appliance in a Rack](#) on page 6
- ◆ [Connecting Keyboard, and Monitor](#) on page 6
- ◆ [Connecting the Power Cable](#) on page 7
- ◆ [Securing the Power Cord](#) on page 7
- ◆ [Powering the Appliance](#) on page 8
- ◆ [Installing the Bezel \(Optional\)](#) on page 8
- ◆ [Completing the Operating System Setup](#) on page 8

## Unpacking the Appliance

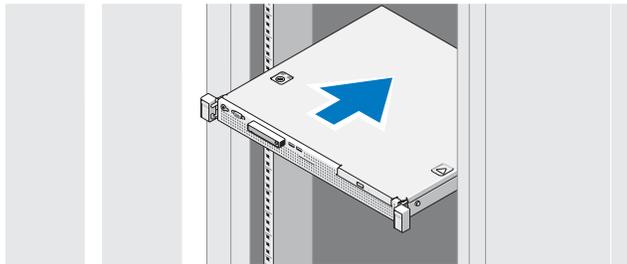
Unpack your appliance and identify each item.

## Installing the Rails and Appliance in a Rack



If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment might be greater than room ambient temperature. Consider installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer. For more information, see [RS170 Technical Specifications](#) on page 16.

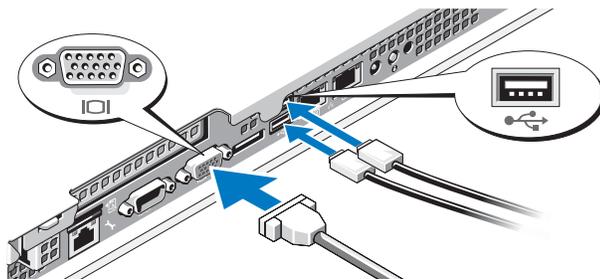
Following the safety instructions provided in your appliance box and the rack installation instructions provided with in the rail kit, assemble the rails and install the appliance in the rack.



## Connecting Keyboard, and Monitor

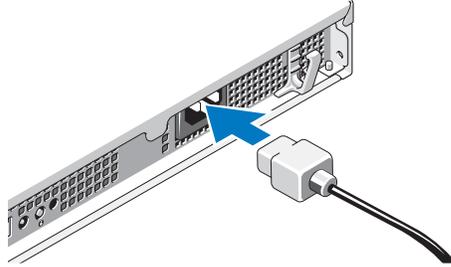
Connect a keyboard, and monitor (not included).

The connectors on the back of your appliance have icons indicating which cable to plug into each connector. Be sure to tighten the screws (if any) on the monitor's cable connector.



## Connecting the Power Cable

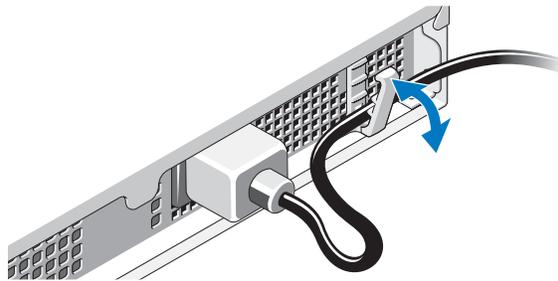
Connect the appliance's power cable to the appliance, and connect the monitor's power cable to the monitor.



## Securing the Power Cord

Bend the appliance power cable into a loop as shown in the illustration and secure the cable to the bracket using the provided strap.

Plug the other end of the power cable into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).



## Connecting Ethernet Cables

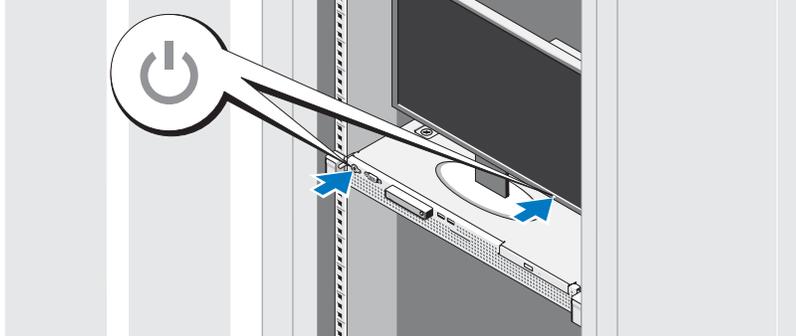
Mirapoint recommends the use of Category 5 patch cables; port connections are standard RJ-45.



Designated Ethernet Port

## Powering the Appliance

Press the power button on the appliance and the monitor. The power indicators illuminate.

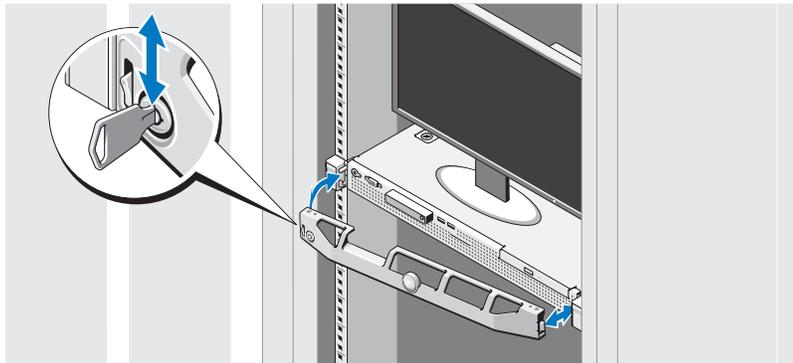


## Installing the Bezel (Optional)



A lock on the bezel restricts access to the power button, optical drive, and hard drives. The LCD panel and navigation buttons are accessible through the front bezel.

Install the bezel (optional).



## Completing the Operating System Setup

The Archiving Operating System (AOS) is pre-installed on all Mirapoint RazorSafe appliances. Once your appliance is physically installed and powered on, you must complete the software configuration as described in the *Mirapoint RazorSafe Software Configuration Guide*.



For the latest information on AOS support, see [support.mirapoint.com](http://support.mirapoint.com).

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# Mirapoint RazorSafe 700 (RS700) Installation

The following provides information and procedures for getting started with a Mirapoint RazorSafe 700 (RS700).



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Before performing the following procedures, review the safety instructions provided with the appliance.

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## Obtaining Technical Assistance

If you need help understanding a procedure in this guide or if the appliance performs unexpectedly, see [Additional Information](#) on page 15 and the *Mirapoint RS700 Hardware Guide*.

## Overview

Installing and configuring your appliance involves the following tasks:

- ◆ [Unpacking the Appliance](#) on page 10
- ◆ [Installing the Rails and Appliance in a Rack](#) on page 10
- ◆ [Connecting Keyboard, and Monitor](#) on page 10
- ◆ [Connecting the Power Cables](#) on page 11
- ◆ [Securing the Power Cord](#) on page 11
- ◆ [Powering the Appliance](#) on page 12
- ◆ [Installing the Bezel \(Optional\)](#) on page 12
- ◆ [Completing the Operating System Setup](#) on page 13

## Unpacking the Appliance

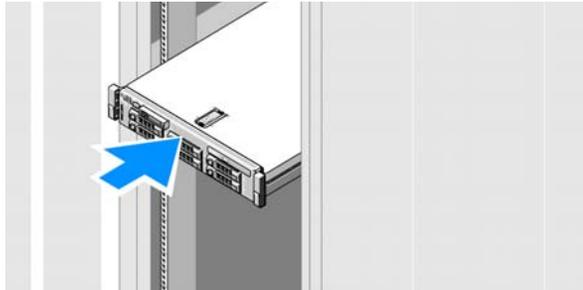
Unpack your appliance and identify each item.

## Installing the Rails and Appliance in a Rack



If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment might be greater than room ambient temperature. Consider installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer. For more information, see [RS700 Technical Specifications](#) on page 19.

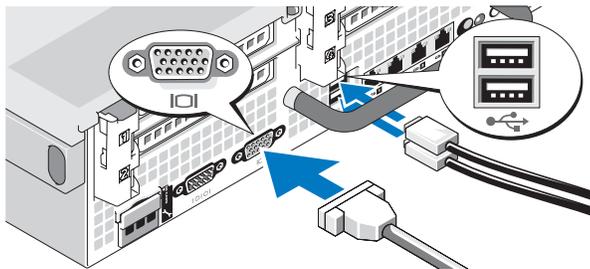
Following the safety instructions provided in your appliance box and the rack installation instructions provided with in the rail kit, assemble the rails and install the appliance in the rack.



## Connecting Keyboard, and Monitor

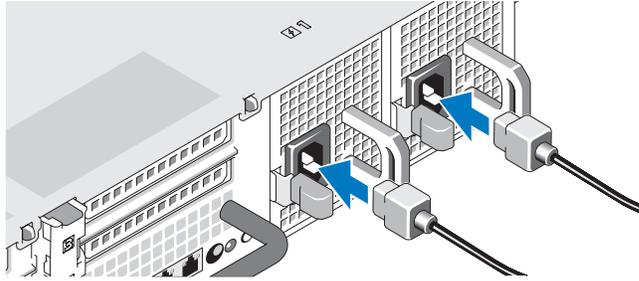
Connect a keyboard, and monitor (not included).

The connectors on the back of your appliance have icons indicating which cable to plug into each connector. Be sure to tighten the screws (if any) on the monitor's cable connector.



## Connecting the Power Cables

Connect the appliance's power cables to the appliance, and connect the monitor's power cable to the monitor.



## Securing the Power Cord

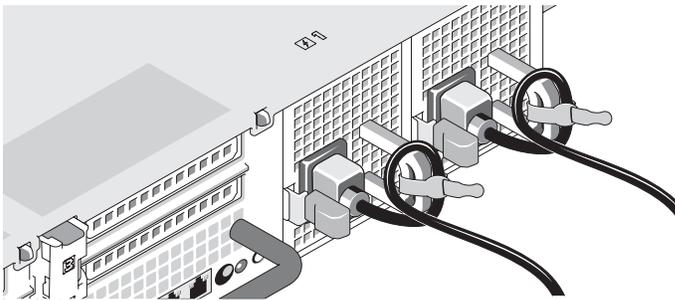
Bend the appliance power cable into a loop as shown in the illustration and secure the cable to the bracket using the provided strap.

Plug the other end of the power cables into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).



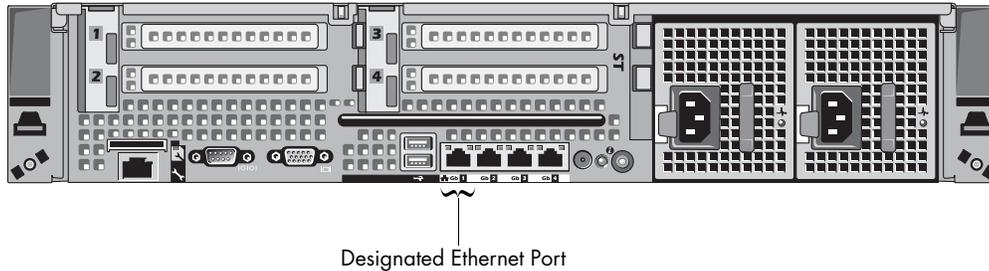
For improved redundancy, Mirapoint recommends connecting the two power supplies to separate circuits, but never mixing the voltages.

For example: Do not plug one power supply into a 120V current and the other power supply into a 240V current.



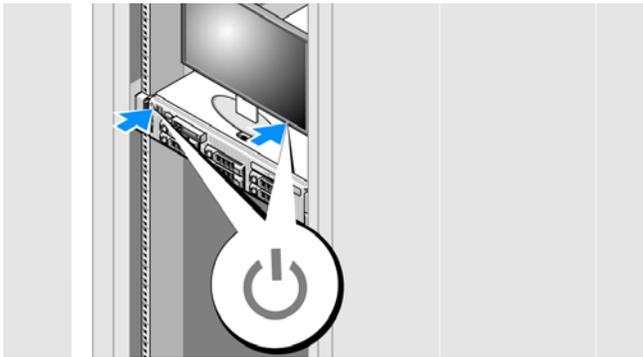
## Connecting Ethernet Cables

Mirapoint recommends the use of Category 5 patch cables; port connections are standard RJ-45.



## Powering the Appliance

Press the power button on the appliance and the monitor. The power indicators illuminate.

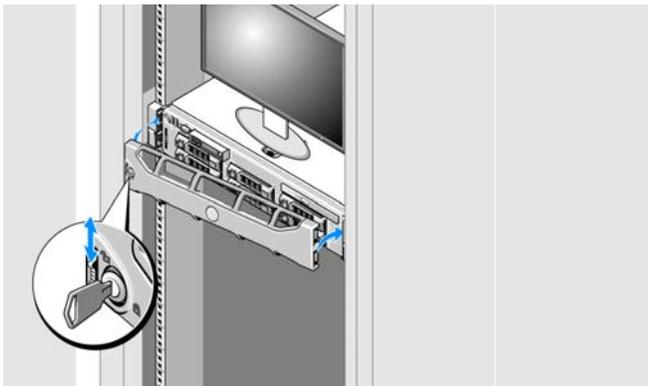


## Installing the Bezel (Optional)



A lock on the bezel restricts access to the power button, optical drive, and hard drives. The LCD panel and navigation buttons are accessible through the front bezel.

Install the bezel (optional).



## Completing the Operating System Setup

The Archiving Operating System (AOS) is pre-installed on all Mirapoint RazorSafe appliances. Once your appliance is physically installed and powered on, you must complete the software configuration as described in the *Mirapoint RazorSafe Software Configuration Guide*.



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For the latest information on AOS support, see [support.mirapoint.com](https://support.mirapoint.com).

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## Additional Information

The following provides additional information relevant to a Mirapoint appliance.

Provided information includes:

- ◆ [Other Information You Might Need](#)
- ◆ [Technical Specifications](#) on page 16
- ◆ [NOM Information \(Mexico Only\)](#) on page 21

### Other Information You Might Need



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See the safety, regulatory, and warranty information which accompanies your appliance.

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- ◆ The rack documentation, included in the rail kit, describes how to install the rack rails and mount your appliance on to the rack rails.
- ◆ The *Mirapoint RazorSafe 170 (RS170) Hardware Guide* and *Mirapoint RazorSafe 700 (RS700) Hardware Guide* provide information about the appliance features and describe how to troubleshoot the appliance and install or replace appliance components. These documents are available online at [support.mirapoint.com](http://support.mirapoint.com).
- ◆ The CD and DVD media, which accompanies these instructions within the folio, provides documentation and tools for configuring and managing your appliance.



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Always first check for updates online at [support.mirapoint.com](http://support.mirapoint.com), and read any updates, because they often supersede information in other documents.

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## Technical Specifications

### RS170 Technical Specifications

Processor	
Processor type	Single Quad-core Intel® Xeon®

Expansion Bus	
Bus type	PCI Express Generation 2

Memory	
Memory capacity	8GB DDR3

Drives	
Hard drives	Two 3.5-inch cabled SATA internal drives
Optical drive	One internal slimline SATA DVD-ROM

Connectors	
<b>Back</b>	
NIC	Two RJ-45 (for integrated 1-GB NICs)
Serial	9-pin, DTE, 16550-compatible
USB	Two 4-pin, USB 2.0-compliant
Video	15-pin VGA
eSATA	One 7-pin connector
<b>Front</b>	
Video	15-pin VGA
USB	Two 4-pin, USB 2.0-compliant
<b>Internal</b>	
USB	One 4-pin, USB 2.0-compliant

Power	
<b>AC Power Supply</b>	
Wattage	250W
Voltage	100-240 VAC, 50/60 Hz, 4-2 A
Heat dissipation	1039 BTU/hr maximum
Maximum inrush current	Under typical line conditions and over the entire system ambient operating range, the inrush current might reach 25 A.
<b>Batteries</b>	
Appliance battery	CR 2032 3.0-V lithium ion coin cell

Physical	
Height	4.24 cm (1.67 in)
Width	43.4 cm (17.09 in)
Depth	39.37 cm (15.5 in)
Weight (maximum configuration)	8.058 kg (17.77 lb)

Environmental	
<b>Temperature</b>	
Operating	10° to 35°C (50° to 95°F) with a maximum temperature gradation of 10°C per hour NOTE: For altitudes above 2950 feet, the maximum operating temperature is derated 1°F/550 ft.
Storage	-40° to 65°C (-40° to 149°F) with a maximum temperature gradation of 20°C per hour
<b>Relative humidity</b>	
Operating	20% to 80% (non-condensing) with a maximum humidity gradation of 10% per hour
Storage	5% to 95% (non-condensing) with a maximum humidity gradation of 10% per hour
<b>Maximum vibration</b>	
Operating	0.26 Grms at 5-500 Hz for 15 min

Environmental (Continued)	
Storage	1.54 Grms at 10–250 Hz for 15 min
<b>Maximum shock</b>	
Operating	One shock pulse in the positive z axis (one pulse on each side of the system) of 31 G for 2.6 ms in the operational orientation
Storage	Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 71 G for up to 2 ms
<b>Altitude</b>	
Operating	–16 to 3048 m (–50 to 10,000 ft) For altitudes above 2950 feet, the maximum operating temperature is derated 1°F/550 ft.
Storage	–16 to 10,600 m (–50 to 35,000 ft)
<b>Airborne Contaminant Level</b>	
Class	G2 or lower as defined by ISA-S71.04-1985

### NOM Information (Mexico Only)

The following information is provided on the device described in this document in compliance with the requirements of the official Mexican standards (NOM):

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Importer:	VIRMAR COMUNICACION EMPRESARIAL SA DE CV Privada Liendo 708 Sur, Col. Obispado Monterrey, NL México 64060 Phone: 011 5281 83404032
Model number:	E10S
Supply voltage:	100–240 VAC
Frequency:	50/60 Hz
Current consumption:	4.0 - 2.0A

## RS700 Technical Specifications

### Processor

Processor type	Dual Quad-core Intel <sup>®</sup> Xeon <sup>®</sup> processors
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### Expansion Bus

Bus type	PCI Express x4
Storage Controller	Plug-in card
Controller Interface Type	Ultra320 SCSI
Data Transfer Rate	320 MBps
Supported Devices	Backup Tape drive

### Memory

Memory capacity	32 GB DDR3
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### Drives

Hard drives	Six 3.5-inch, internal, hot-swappable SAS hard drives.*
Optical drive	One internal slimline SATA DVD-ROM

\*If you purchased your hardware before September 15, 2010, your configuration is different. For details, contact your Mirapoint representative.

### Connectors

<b>Back</b>	
NIC	Four RJ-45 10/100/1000 Mbps Ethernet
Serial	9-pin, DTE, 16550-compatible
Video	15-pin VGA
<b>Front</b>	
Video	15-pin VGA

### Power

#### AC Power Supply (per power supply)

Wattage	870 W (Max.)
Voltage	90–264 VAC, autoranging, 47-63 H
Heat dissipation	2968.6 BTU/hr maximum (Max.)
Maximum inrush current	Under typical line conditions and over the entire ambient operating range, the inrush current might reach 55 A per power supply for 10 ms or less.

#### Batteries

Appliance battery	CR 2032 3.0-V lithium coin cell
RAID battery	3.7-V lithium ion battery pack

### Physical

Height	8.64 cm (3.4 in)
Width	48.24 cm (18.99 in) with rack latches 44.31 cm (17.4 in) without rack latches
Depth	72.06 cm(28.4 in) with power supplies and bezel 68.07 cm(26.8) without power supplies and bezel
Weight (maximum configuration)	26.1 kg (57.54 lb)
Weight (without hard drives)	17.7 kg (39 lb)

### Environmental

#### Temperature

Operating	10° to 35°C (50° to 95°F) with a maximum temperature gradation of 10°C per hour For altitudes above 2950 feet, the maximum operating temperature is derated 1°F/550 ft.
Storage	–40° to 65°C (–40° to 149°F) with a maximum temperature gradation of 20°C per hour

#### Relative humidity

Operating	20% to 80% (non-condensing) with a maximum humidity gradation of 10% per hour
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Environmental (Continued)	
Storage	5% to 95% (non-condensing) with a maximum humidity gradation of 10% per hour
<b>Maximum vibration</b>	
Operating	0.26 Gms from 5–350 Hz for 5 minutes in operational orientations
Storage	1.54 Gms from 10–250 Hz for 10 minutes in all orientations
<b>Maximum shock</b>	
Operating	Half sine shock in all operational orientations of 31 G plus or minus 5% with a pulse duration of 2.6 ms plus or minus 10%
Storage	Half sine shock on all six sides of 71 G plus or minus 5% with a pulse duration of 2 ms plus or minus 10% Square wave shock on all six sides of 27 G with a velocity change at 235 in/sec or greater
<b>Altitude</b>	
Operating	–16 to 3048 m (–50 to 10,000 ft) For altitudes above 2950 feet, the maximum operating temperature is derated 1°F/550 ft.
Storage	–16 to 10,600 m (–50 to 35,000 ft)

## NOM Information (Mexico Only)

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Model number:	E07S
Supply voltage:	100–240 VAC
Frequency:	50/60 Hz
Current consumption:	7.0 - 3.5A

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