



Safety Precautions

This document contains important information that you should read before performing a physical installation of your Harmony™ Controller Appliance.

Note that some statements may not apply to your specific device.

Additional Documentation

Complete software and hardware documentation is available online or by contacting your local A10 Networks representative.

To view the documentation online:

1. Complete the steps listed in the Installation Guide, and Safety Guide and then refer the online documentation.
2. Go to <http://docs.hc.a10networks.com/4.0.0/a10-hc-installation.html#installation-of-a10-hardware-appliance> to refer to the Harmony Controller documentation.



Chassis Lifting and Placement

Lifting the chassis and placing it in the rails is a two-person job. If needed, use an appropriate lifting device.



Chassis Installation

Installation must be performed only by a trained electrician or by a person who understands all the installation and device specifications.



Electrostatic Discharge

This device is sensitive to electrostatic discharge (ESD). Wearing an ESD wrist strap while working on this device is required.



Preparing the Site

Observe the following:

- The device is designed for use in Network Telecommunications Facilities (Central Office) environment.
- The device is suitable for installation as part of a Common Bonding Network.

The intra-building ports of the equipment or subassembly are suitable for connection to intra-building or unexposed wiring or cabling only. The intra-building ports of the equipment or subassembly **MUST NOT** be metallically connected to interfaces that connect to the Outside Plant (OSP) or its wiring. These interfaces are designed for use as intra-building interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE, Issue 5) and require isolation from the exposed OSP cabling.

On A10 Harmony Controller 2000 and Harmony Controller 8000 devices, the intra-building ports of the equipment or subassembly are specified for use with shielded and grounded cables.

The addition of Primary Protectors is not sufficient protection in order to connect these interfaces metallically to OSP wiring.



Temperature and Air Flow

Installation of the chassis on a rack should be such that:

- The amount of air flow required for safe operation of the device is not compromised.
- The air flow direction is front-to-back; only front-to-back air flow is supported on Harmony Controller Appliance.

If you install the chassis on a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the chassis in an environment compatible with the maximum ambient temperature (T_{ma}) specified for the device.

General temperature and humidity settings are listed below:

- Operating temperature: 0 ~ 40° C
- Ambient operating humidity: 5% ~ 95%



Preparing the Power Input

Observe the following:

- The DC Option Power return leads must be configured in the DC-Isolated (DC-I) configuration. The DC Return connection must remain isolated from ground until it is connected to the Central Office Power source return Bus.
- An external Surge Protective Device (SPD) is intended to be used at the AC input of the network equipment.
- The DC power input can operate normally on any DC input from -72 to -40 VDC. Use at least a 20-amp fuse for each DC breaker.



Reliable Earthing

Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit. For example, make sure earthing is maintained even if you use power strips.

- Before connections are made, all non-plated surfaces of the device must be brought to a bright finish and treated with an anti-oxidant solution; all bare grounding connection points to the device must be cleaned and coated with an anti-oxidant solution.
- All non-conductive surfaces on the device must be removed from all threads and connection points to ensure electrical continuity.
- The device must be grounded using a 10 AWG Copper wire. This wire should be Green with Yellow stripe and be terminated with a UL-listed single hole compression lug. The compression lug should be torqued to 15 ft. lbs during installation using a Nut and an External tooth washer to ensure the connection does not become loose.
- All bare grounding connection points to the device shall be cleaned and coated with an anti-oxidant solution before connections are made.