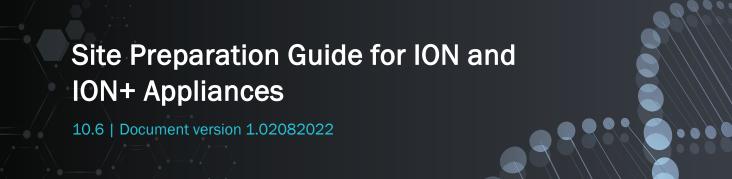
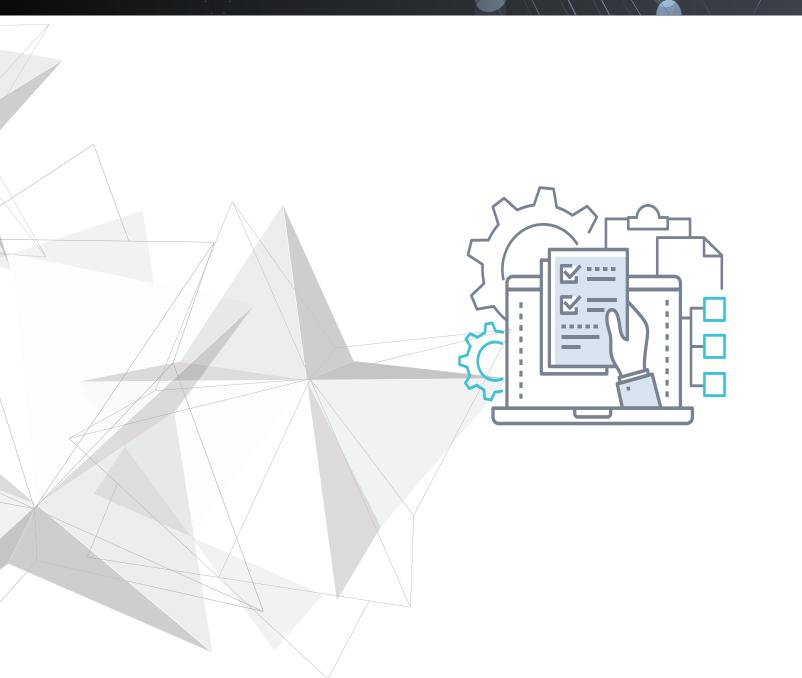
UNITRENDS





Copyright

Copyright © 2022 Unitrends Incorporated. All rights reserved.

Content in this publication is copyright material and may not be copied or duplicated in any form without prior written permission from Unitrends, Inc ("Unitrends"). This information is subject to change without notice and does not represent a commitment on the part of Unitrends.

The software described in this publication is furnished under a license agreement or nondisclosure agreement. The software may be used or copied only in accordance with the terms of the license agreement. See the End User License Agreement before using the software.

The software described contains certain open source components that are copyrighted. For open source licenses, see the UnitrendsOpen Source Compliance section of the product Administrator Guide.

Because of the nature of this material, numerous hardware and software products are mentioned by name. In most, if not all, cases these product names are claimed as trademarks by the companies that manufacture the products. It is not our intent to claim these names or trademarks as our own.

The following applies to U.S. Government End Users: The Software and Documentation are "Commercial Items," as that term is defined at 48 C.F.R.2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation," as such terms are used in 48 C.F.R.12.212 or 48 C.F.R.227.7202, as applicable. Consistent with 48 C.F.R.12.212 or 48 C.F.R.227.7202-1 through 227.7202-4, as applicable, the Commercial Computer Software and Commercial Computer Software Documentation are being licensed to U.S. Government end users (a) only as Commercial Items and (b) with only those rights as are granted to all other end users pursuant to the terms and conditions herein. Unpublished-rights reserved under the copyright laws of the United States. Unitrends agrees to comply with all applicable equal opportunity laws including, if appropriate, the provisions of Executive Order 11246, as amended, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974 (38 USC 4212), and Section 503 of the Rehabilitation Act of 1973, as amended, and the regulations at 41 CFR Parts 60-1 through 60-60, 60-250, and 60-741. The affirmative action clause and regulations contained in the preceding sentence shall be incorporated by reference.

The following applies to all contracts and subcontracts governed by the Rights in Technical Data and Computer Software Clause of the United States Department of Defense Federal Acquisition Regulations Supplement:

RESTRICTED RIGHTS LEGEND: USE, DUPLICATION OR DISCLOSURE BY THE UNITED STATES GOVERNMENT IS SUBJECT TO RESTRICTIONS AS SET FORTH IN SUBDIVISION (C)(1)(II) OF THE RIGHTS AND TECHNICAL DATA AND COMPUTER SOFTWARE CLAUSE AT DFAR 252-227-7013. UNITRENDS CORPORATION IS THE CONTRACTOR AND IS LOCATED AT 200 WHEELER ROAD, NORTH TOWER, 2ND FLOOR, BURLINGTON, MASSACHUSETTS 01803.

Unitrends, Inc 200 Wheeler Road North Tower, 2nd Floor Burlington, MA 01803, USA Phone: 1.866.359.5411



10.6 | February 2022

Contents

S	ite Preparation Guide for ION and ION+ Appliances	. 5
	Space and Weight Requirements	. 5
	Power Requirements	. 6
	Cooling and Environmental Conditions	7
	Configuration Requirements	. 8
	Configuring the System	9



Site Preparation Guide for ION and ION+ Appliances

10.6 | February 2022

This page is intentionally left blank.





Site Preparation Guide for ION and ION+ Appliances

This document describes the preparations that should be considered before installing ION and ION+ appliances. Proper preparation of the site will help ensure consistent and stable operation of the Unitrends solution.

		IDLE Noise levels (dB)		CPU Stressed Noise levels (dB)	
Model	Chassis Type	Operator Position	Bystander Position	Operator Position	Bystander Position
ION-108	Desktop	23.78 dB	N/A	52.23 dB	N/A
ION-208	Desktop	23.78 dB	N/A	52.23 dB	N/A
IONP-132	Desk side	29.7 dB	24.0 dB	35.7 dB	31.0 dB
IONP-232	Desk side	29.7 dB	24.0 dB	35.7 dB	31.0 dB
IONP-432	Desk side	29.7 dB	24.0 dB	35.7 dB	31.0 dB
IONP-832	Desk side	29.7 dB	24.0 dB	35.7 dB	31.0 dB

The ION and ION+ appliance line includes these models:

Consider these site preparation requirements before installation:

- "Space and Weight Requirements"
- "Site Preparation Guide for ION and ION+ Appliances" on page 5
- "Power Requirements" on page 6
- "Cooling and Environmental Conditions" on page 7
- "Configuration Requirements" on page 8

Space and Weight Requirements

The following space and weight requirements should be considered before installing the Unitrends hardware:

Note: Unitrends recommends the use of cable guides to organize the power, network, and other cables.



10.6 | February 2022

Model	Dimensions (W x D x H)	Appliance Weight	Shipping Weight
ION-108	4.60" x 4.40" x 1.50" (117mm x 112mm x 38mm)	2 lbs (907.2 gr)	6 lbs (2.72 kg)
ION-208	4.60" x 4.40" x 1.50" (117mm x 112mm x 38mm)	2 lbs (907.2 gr)	6 lbs (2.72 kg)
IONP-132	6.95" x 13.58" x 13.19" (176.6mm x 345.0mm x 335.0mm)	18.74 lbs (8.5k g)	24.86 lbs (11.27 kg)
IONP-232	6.95" x 13.58" x 13.19" (176.6mm x 345.0mm x 335.0mm)	18.74 lbs (8.5k g)	24.86 lbs (11.27 kg)
IONP-432	6.95" x 13.58" x 13.19" (176.6mm x 345.0mm x 335.0mm)	18.74 lbs (8.5k g)	24.86 lbs (11.27 kg)
IONP-832	6.95" x 13.58" x 13.19" (176.6mm x 345.0mm x 335.0mm)	18.74 lbs (8.5k g)	24.86 lbs (11.27 kg)

Power Requirements

The specifications listed in this section assume that appliances are fully configured. There should be sufficient power capacity to service each appliance.

The proper power protection must be provided for each on-site appliance. Uninterruptible power supplies (UPS) must be adequately sized to support the appliance. Additionally, UPS must supply enough current to the appliance while it is charging.

The following table provides power requirements for ION and ION+ appliances:

Notes:

- ION models make use of an AC to DC power adapter
- IONP models are 90% efficient PSU (80 PLUS Gold) Energy Star compliant

Model	Power Supply	Input Voltage Range (Auto Sensing)	Input Freq Range	Input Current Range	BTU/hr
ION-108	DC Input Voltage	19 VDC	2.1 GHZ to 4.1 GHZ	4.7 A	N/A
ION-208	DC Input Voltage	19 VDC	2.1 GHZ to 4.1 GHZ	4.7 A	N/A
IONP-132	460W	90 VAC to 264 VAC	47 Hz to 63 Hz	8 A	1570
IONP-232	460W	90 VAC to 264 VAC	47 Hz to 63 Hz	8 A	1570
IONP-432	460W	90 VAC to 264 VAC	47 Hz to 63 Hz	8 A	1570
IONP-832	460W	90 VAC to 264 VAC	47 Hz to 63 Hz	8 A	1570



Cooling and Environmental Conditions

Unitrends appliances have been designed to operate within the environmental conditions listed below. Conditions that exceed recommended temperatures may result in severe damage caused by heat buildup. Proper air circulation will help prevent hot spots and ensure optimal performance. Unitrends recommends the use of a temperature alarm system for appliances that operate in an unattended environment.

Note: Installing the appliance in direct sunlight may cause it to overheat.

Chassis Specs for ION Desktop Models	Description for ION Series	
Non-operating environment (storage)	 Temperature: -20°C to 40°C (-4°F to 104°F) Shock (maximum): 50 G Trapazoidal Waveform, velocity change of 170"/S^2 Vibration (maximum): Random profile 5 Hz to 40 Hz@0.015g^2/Hz to 500 Hz@0.00015g^2/Hz (slope down), input acceleration is 1.09 gRMS 	
Operating environment	 Temperature (internal): 0°C to 40°C (32°F to 104°F) Shock (maximum): 50 G Trapazoidal Waveform, velocity change of 170"/S^2 Vibration (maximum): Random profile 5 Hz to 40 Hz@0.015g^2/Hz to 500 Hz@0.00015g^2/Hz (slope down), input acceleration is 1.09 gRMS 	

The Unitrends environmental specifications for ION series appliances include:



Chassis Specs for ION+ Desk Side Models	Description for ION+ Series	
Non-operating environment	• Temperature: -40°C to 65°C (-40°F to 149°F)	
(storage)	 Relative humidity: 5% to 95% (non-condensing, max dew point temperature = 33°C) 	
	• Shock (maximum): 105 G half-sine pulse with a change in velocity of 133 cm/sec (52.5 in ./sec)	
	• Vibration (maximum): 1.37 GRMS random at 5 Hz to 350 Hz	
	• Altitude range: 10,668 m (35,000 ft)	
Operating environment	 Temperature (internal): 10°C to 35°C (50°F to 95°F) 	
	 Relative humidity (max): 20% to 80% (non-condensing, max dew point temperature = 26°C) 	
	 Shock (maximum): Bottom half-sine pulse with a change in velocity of 50.8 cm/sec (20 in ./sec) 	
	• Vibration (maximum): 0.26 GRMS random at 5 Hz to 350 Hz	
	• Altitude range: 10,668 m (35,000 ft)	

The Unitrends environmental specifications for ION+ series appliances include:

Configuration Requirements

- IT Personnel Considerations An administrator with network and client system access is expected to be available to assist with the implementation. This person will be responsible for installing and configuring agent software and will help with the planning and implementation of the overall Unitrends data protection solution. Additionally, someone responsible for administering and managing the appliances should be available during the installation process.
- **Network Considerations** Ethernet network configurations must be capable of supporting the added demands of a Unitrends appliance. Ethernet switch ports must be available prior to installation.
- **On-premise to Off-premise Connections** If hot backup copy will be implemented, adequate bandwidth for transferring data between the on-premise system and the off-premise system is critical. Generally, a T1 line can transfer between 400MB to 500MB of data per hour without secure shell compression. OpenVPN is recommended for connection between the two systems. Additionally, firewall access (if applicable) must be granted in order to allow the two appliances to communicate on designated ports.



Site Preparation Guide for ION and ION+ Appliances

10.6 | February 2022

Configuring the System

Configure the system as described in the *Quick Start Guide for ION and ION+ Appliances*, available at https://www.unitrends.com/docs/user-guides/ion-quick-start-guide.



10.6 | February 2022

This page is intentionally left blank.

