NVIDIA UFM Enterprise Appliance Gen 3.5 (XDR DC) Hardware User Manual

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About This Document

This document describes the installation and basic use of the NVIDIA® UFM® Enterprise Appliance Gen 3.5 (XDR DC).

Relevant Models

UFM Enterprise XDR-DC Appliance version: 3.5

Model	NVIDIA SKU	Legacy OPN	Description
MUA970D	920-9B020-10RI-0D0	MUA9702H-2SFS-DC	NVIDIA UFM 3.5 appliance for UFM Telemetry or UFM Enterprise, 2U appliance with ConnectX-8 400Gb/s InfiniBand adapter, DC, UFM software package and license sold separately.

Intended Audience

This manual is intended for software and hardware engineers, users and system administrators responsible for fabrics management.

The manual assumes familiarity with the InfiniBand Architecture Specification and with the Ethernet specification.

Technical Support

Customers who purchased NVIDIA products directly from NVIDIA are invited to contact us through the following methods:

- E-mail: enterprisesupport@nvidia.com
- Enterprise Support page: https://www.nvidia.com/en-us/support/enterprise

Customers who purchased NVIDIA M-1 Global Support Services, please see your contract for details regarding technical support .

Customers who purchased NVIDIA products through an NVIDIA-approved reseller should first seek assistance through their reseller.

Related Documentation

Document Name	Description
InfiniBand Architecture Specification Release 1.2.1, Vol 2 - Release 1.4, Vol 2 - Release 1.5 and Vol 1 - Release 1.7.	The InfiniBand Architecture Specification that is provided by IBTA
NVIDIA UFM Enterprise Appliance User Manual and Release Notes	This document contains information regarding the use of UFM software, prerequisites, changes and new features, bug fixes, and reports on software known issues

Overview

NVIDIA® UFM® is a powerful platform for managing scale-out computing environments. UFM enables data center operators to monitor and operate the entire fabric efficiently and maximize fabric resource utilization.

UFM eliminates the complexity of fabric management, provides deep visibility into traffic and health, and optimizes application performance.

While other tools are device-oriented and involve manual processes, UFM is an automated and an application-oriented software which bridges the gap between servers, applications, and fabric elements. Thus, it enables administrators to manage and optimize clusters of various sizes.

UFM Enterprise Appliance is offered as a pre-installed network device, suitable for all OS environments. It uses an NVIDIA® ConnectX®-8 XDR single-port adapter card installed on the fabric with minimal effort.

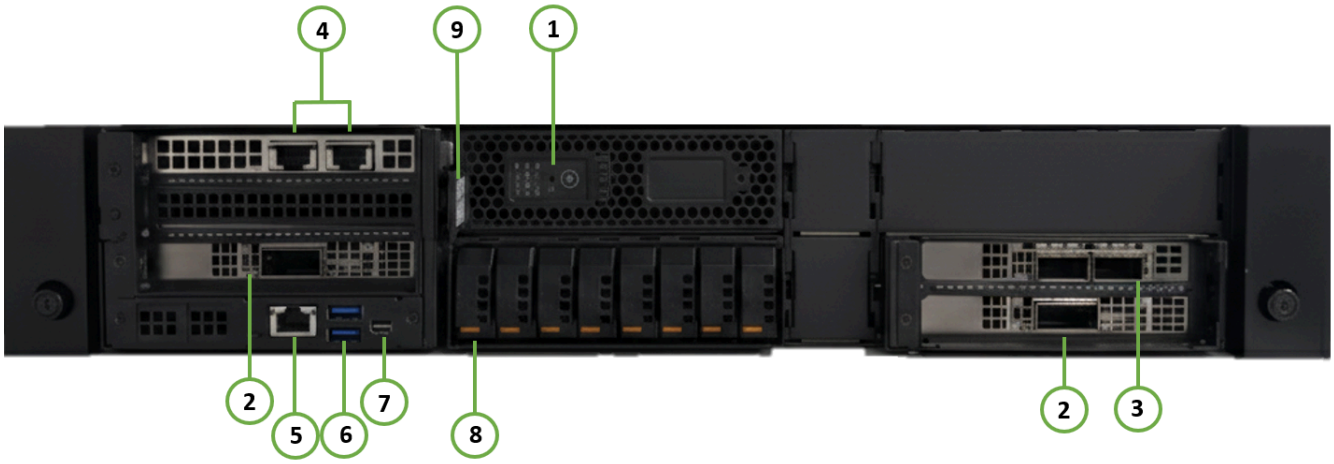
Hardware Overview

The system supports the following:

Qty.	Interface
x1	On/Off button with an integral LED
x2	RJ-45 Ports
x2	10Gb Ethernet Connectors
x2	XDR Ports (allow connectivity to an IB Switch FNM port)
x2	USB Ports
	Status LEDs
x2	Hot-swap SSD Drawers

Front Panel of UFM Enterprise Appliance

Front Side Interfaces



Contains the system health, system ID, and status LED

	Interface	Description
1	Control Panel	Contains the system health, system ID, and status LED

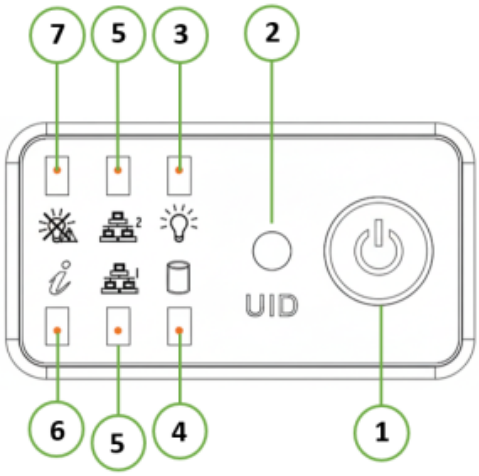
	Interface	Description
2	ConnectX-8 OSFP Adapter Cards	ConnectX-8 XDR single-port adapter card, allow connectivity to a switch FNM Port
3	ConnectX-8 QSFP Adapter Card	ConnectX-8 dual-port adapter card, allow connectivity to SN5600 INBAND
4	NIC ports	2x 10GbE Base-T ports
5	RJ-45 Port	This port is designed for secure local and remote server management control (BMC) and helps IT administrators deploy, update and monitor the device.
6	USB 3.0 ports	2x USB 3.0-compliant
7	Mini Display Port	Mini display port video connector
8	Drive slots	2x E1.S NVMe hot-swap drives. Enables you to install drives that are supported on your system
9	Pull-Tab	A slide-out label panel containing system information (e.g., MAC address, serial number, etc.)

Rear Panel of UFM Enterprise Appliance

Rear Side Interfaces

Index	Interface	Description
1	Bus-bar	Bus-bar Power Connector

Control Panel View



Index	Indicator or Button	Icon	Description
1	Power Button		The main power switch applies or removes primary power from the power supply to the server but maintains standby power.
2	UID Switch/LED/ BMC button	UID	The unit identification (UID) button turns on or off the blue light function of the Information LED and a blue LED on the rear of the chassis.This button can also be used to reset the BMC.
3	Power LED		Steady on – Power on Blinking at 4Hz – Checking BIOS/BMC integrityBlinking at 4Hz and "i" LED is blue – BIOS firmware updatingTwo blinks at 4Hz, one pause 2hz and "i" LED blue – BMC firmware updatingBlinking at 1Hz and "i" LED red – Fault detected
4	SSD LED		Indicates activity on the storage drives when flashing.
5	NIC LEDs		Indicates network activity on the LAN ports when flashing
6	Information LED		Alerts operator to several states (noted in the table below)
7	Power Fail LED		Indicates a power supply module has failed.

Information LEDs Specifications

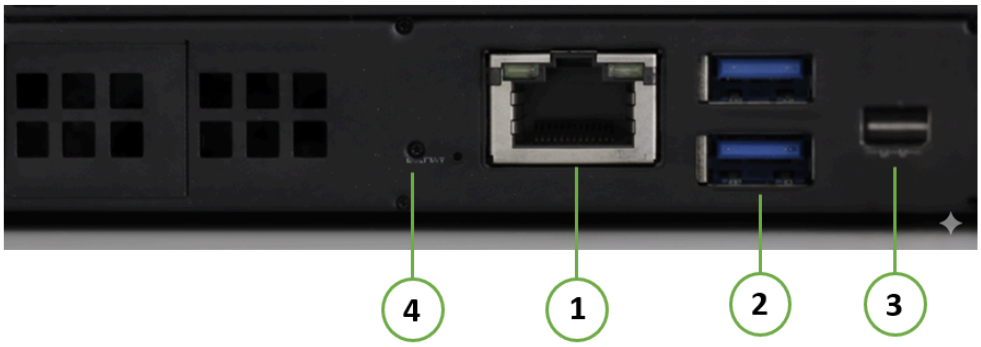
Information LED		
Color	Status	Description
Red	Solid	An overheating condition has occurred
Red	Blinking at 1 Hz	Fan failure, check for an inoperative fan
Red	Blinking at 10 Hz	CPLD recovery mode error
Blue	Solid	Unit ID has been activated by switch
Blue	Blinking at 1 Hz	Unit ID has been activated using the BMC
Blue	Blinking at 2 Hz, and BMC Heartbeat LED on the motherboard is green	BMC is resetting
Blue	Blinking at 4 Hz	BMC is setting factory defaults
Blue	Blinking at 10 Hz	BIOS/BMC is recovering or updating
Red	Blinking at 10 Hz and the rear UID LED is blue, blinking at 10 Hz	CPLD recovery or update is in progress

Front Control Panel LED Specifications

Front Control Panel LED Indicators						
Event	Power	SSD	NIC	UID	Info	Power Fail
Power On	Solid On	-	-	-	-	-
SDD Activity	-	Blinking		-	-	-
NIC Activity	-	-	Blinking	-	-	-
Overheat	-	-	-	-	Solid On	-
Fan Fail	-	-	-	-	Blinking 1 Hz	-
Power Fail	-	-	-	-	Blinking 1/4 Hz	Solid On
Local UID On	-	-	-	Solid On	-	-

Front Control Panel LED Indicators						
Remote UID On	-	-	-	Blinking 1 Hz	-	-
Checking BMC/BIOS	Blinking at 4 Hz	-	-	-	-	-
Recovering/Updating	• BMC Blinking at 4 Hz • BMC 2 Blinks at 4 Hz, 1 Pause at 2 Hz (on-on-off-off	-	-	BIOS/BMC Blinking at 10 Hz	-	-
Flash Not Detected or Golden Image Check Failed	BMC/BIOS Blinking at 1 Hz	-	-	-	-	-
CPLD Recovery Mode	-	-	-	Blinking at 10 Hz (MB UID LED)	Blinking at 10 Hz (FP Red LED)	-

Input/Output Panel



Index	Indicator or Button	Icon	Description
1	UID Switch/LED/BMC button		The unit identification (UID) button turns on or off the blue light function of the Information LED and a blue LED on the rear of the chassis. This button can also be used to reset the BMC.
2	LAN Port		RJ45 port is shared for system network access and BMC access; for indicator details, see BMC LAN LEDs
3	USB Ports		2x USB 3.0
4	Mini Display Port		Mini Display Port video connector

SSD LED Indicators

Each E1.S SSD has two LED indicators: an activity indicator and a status indicator.

Drive Carrier LED Specifications

LED	Color	Blinking Pattern	Behavior for Device
Activity LED	Green	Solid On	Idle
	Green	Blinking	I/O activity
	Off	-	Eject device
Status LED	Off	-	Idle
	Amber	Blinking at 4 Hz	Locate device
	Amber	Blinking at 1 Hz for a few seconds, then off	Eject device or insert device, as appropriate

2x ConnectX-8 OSFP SuperNIC

These two OSFP ports are found on the front side of the appliance (see callout 4 and 9 in "Front Side Interfaces" figure above). and allow connectivity to an FNM (Fabric Network Management) InfiniBand switch port in the fabric. It is recommended to connect to two different switches for redundancy. The appliance can be connected only to a single IB fabric.

Connecting the UFM XDR Appliance to the FNM InfiniBand Switch Port

The FNM (Fabric Network Management) port is a separate OSFP InfiniBand in-band management port. It enables accessing the UFM Enterprise appliance that allows data center operators to efficiently monitor and operate the entire fabric.

XDR Cluster

Switch	Cable / Transceiver SKU on Switch Side	Cable / Transceiver SKU on UFM XDR-HCA Side
Quantum-3 Q3200 Switch **Network Port**	MMS4X00-NM / 980-9I30G-00NM00 (50m)	MMS4X00-NS400 / 980-9I31N-00NM00 (100m)
Quantum-X800 Q3200 Switch **FNM** as XDR Lite (as 4 1x 100G)	MMS4X00-NM / 980-9I30G-00NM00 (50m)	MMS4X00-NS400 / 980-9I31N-00NM00 (100m)
Quantum-X800 Q3400 Switch **Network Port**	MMS4X00-NM / 980-9I30G-00NM00 (50m)	MMS4X00-NS400 / 980-9I31N-00NM00 (100m)
Quantum-X800 Q3400 Switch **FNM** as XDR Lite (as 4 1x 100G)	MMS4X00-NM / 980-9I30G-00NM00 (50m)	MMS4X00-NS400 / 980-9I31N-00NM00 (100m)

NDR Cluster

Prerequisite:

To support this connectivity, change the default configuration of **all the ConnectX®-8 XDR adapter cards** by running the following CLI command:

```
ib profile --set ndr --force
```

Switch	Cable / Transceiver SKU on Switch Side	Cable / Transceiver SKU on UFM XDR-HCA Side*
Quantum-2 MQM97xx Network Port	MMA4Z00-NS / 980-9I510-00NS00 (50m)	MMA4Z00-NS400 / 980-9I51S-00NS00 (50m)
Quantum-2 MQM97xx Network Port	MMS4X00-NM / 980-9I30G-00NM00 (50m)	MMS4X00-NS400 / 980-9I31N-00NM00 (100m)
* UFM XDR Appliance side should configure the ConnectX-8 C8180 cards to be non-planarized. ** The 980-9I30H-00NM00 / 980-9I510-00NS00 transceivers support a 2x100		

1x ConnectX-8 QSFP SuperNIC

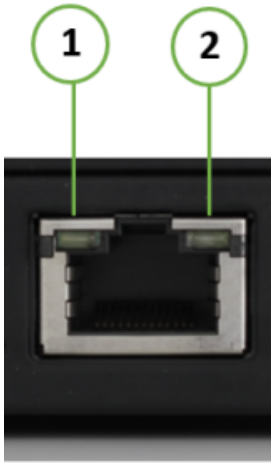
There is one dual QSFP ConnectX-8 SuperNIC located on the front side of the appliance (see callout 10 in "Front Side Interfaces" figure above) which allows Ethernet connectivity via the Inband connection to two NVIDIA Spectrum-4 SN5600 Switch Systems.

NIC Ports

Activity LED Indicators

Each NIC on the back of the system has indicators that provide information about the activity and link status. The activity LED indicator indicates if data is flowing through the NIC, and the link LED indicator indicates the speed of the connected network.

NIC Activity LEDs



Index	Description
1	Link LED indicator
2	Activity LED indicator

The following table lists the drive indicator codes:

NIC Indicator Code	Condition
Link and activity indicators are off	Indicates that the NIC is not connected to the network
Link indicator is green, and activity indicator is blinking green	Indicates that the NIC is connected to a valid network at its maximum port speed, and data is being sent or received
Link indicator is amber, and activity indicator is blinking green	Indicates that the NIC is connected to a valid network at less than its maximum port speed, and data is being sent or received
Link indicator is green, and activity indicator is off	Indicates that the NIC is connected to a valid network at its maximum port speed, and data is not being sent or received
Link indicator is amber, and activity indicator is off	Indicates that the NIC is connected to a valid network at less than its maximum port speed, and data is not being sent or received
Link indicator is blinking green, and activity is off	Indicates that the NIC identity is enabled through the NIC configuration utility

RJ-45 Port

The remote management (BMC) control port is designed for secure local and remote server management and helps IT administrators deploy, update, and monitor the NVIDIA® UFM® Enterprise Appliance.

RJ-45 Management Ports

These four RJ-45 ports (eno8303, eno8403) are located on the front side of the appliance (see callout 5 in "Front Side Interfaces" figure above). The eno8303 and the remote management interfaces are pre-configured as DHCP and the initial host name is ubuntu, so their IP addresses can be obtained from the DHCP server. If no DHCP server is available, you have to use a serial cable to connect and configure eno8303 and the remote-management IP addresses with a static IP address.

> **Note**
>
> Configuring the appliance via the serial port is required only in the case where out-of-the-box DHCP configuration for eno8303 cannot be used. (There is no DHCP server in the management network). The user is then required to use the serial port to configure a static IP on eno8303.

> **Note**
>
> NIC#1 Ethernet connector gets connected to Ethernet switches. This switch must be configured to 100M/1G auto-negotiation.

RJ-45 Ethernet Connector for Remote Management (BMC)

The appliance has several Ethernet management interfaces. The primary management interface is eno8303. An additional interface exists, for connecting to a remote

management controller (BMC) (It usually connects to the same management network as eno8303).

To use out-of-the-box DHCP settings, the default hostname for the appliance (over eno8303) is "ubuntu". The MAC address for eno8303 is available on the pull-tab and can be configured in the DHCP server.

To use the remote management controller (BMC) with DHCP, the free-range IP allocation must be enabled on the DHCP server. A static IP address for remote management interface (BMC) can be configured via the Remote Management (BMC) web application.

For more information about RJ-45 Ethernet Remote Management, (BMC) please refer to Appendix – Remote Access Controller.

Note

Configuration via a serial port is only required if you want to use a static IP address and not the out-of-the-box DHCP setting for eno8303. Otherwise, an IP is assigned by the DHCP server, and you can log into the CLI over LAN.

Note

NIC#1 Ethernet connector gets connected to Ethernet switches. This switch must be configured to 100M/1G auto-negotiation.

USB Interface

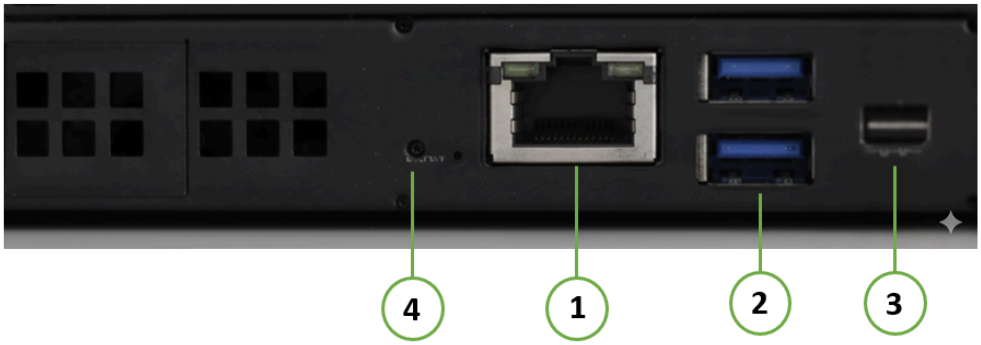
> **Note**
>
> The USB interface can be used to update the UFM.

There are two USB connectors. These connectors can be used to install software and/or firmware upgrades using a memory device that has a USB connector. This connector is USB 2.0 compliant. Various upload/download operations are also supported through the USB using the CLI such as:

- UFM configuration fetching/uploading
- UFM license fetching
- UFM upgrade

All USB connectors can be used to perform SW updates or various upload/download operations using the CLI.

Input/Output Panel



Index	Indicator or Button	Icon	Description
1	UID Switch/LED/BMC button		The unit identification (UID) button turns on or off the blue light function of the Information LED and a blue LED on the rear of the chassis. This button can also be used to reset the BMC.

Index	Indicator or Button	Icon	Description
2	LAN Port		RJ45 port is shared for system network access and BMC access; for indicator details, see BMC LAN LEDs
3	USB Ports		2x USB 3.0
4	Mini Display Port		Mini Display Port video connector

Mechanical Installation

Warning

Before installing your new appliance, make sure to read and adhere to the safety warnings listed in the "Installation Safety Warnings" appendix.

Warning

The UFM Enterprise XDR-DC appliance fits properly in the MGX rack. However, compatibility issues may occur when installing it in other standard industry racks.

If a fitting issue arises, remove the pointed standoff screw.

UFM Enterprise Appliance accepts input voltages of 48Vdc. The appliance can be rack mounted and is designed for installation in a standard 19" rack.

The installer should use a rack capable of supporting the mechanical and environmental characteristics of a fully populated rack.

Note

The rack mounting holes conform to the EIA-310 standard for 19-inch racks. Take precautions to guarantee proper ventilation in order to maintain good airflow at ambient temperature. Cable routing should not impede the air exhaust from the chassis.

Package Contents

Unpack the system and check to make sure that all the parts have been sent. Check this against the parts list below. Check the parts for visible damage that may have occurred during shipping.

The appliance comes packed with the following items:

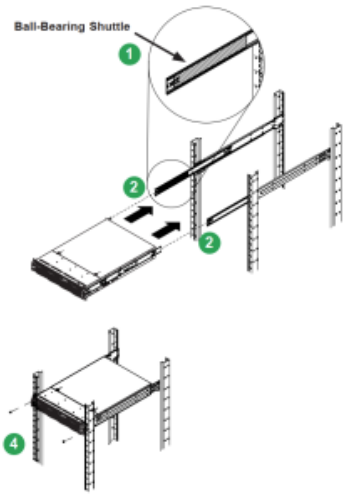
- 1X – appliance
- 2X – installation rails, one right hand and one left hand
- 1X – Ethernet CAT6A cable (RJ45-to-RJ45), 2m

Installing Appliance in Rack

1. Extend the outer rails as illustrated.

2. Align the inner rails of the chassis with the outer rails on the rack.

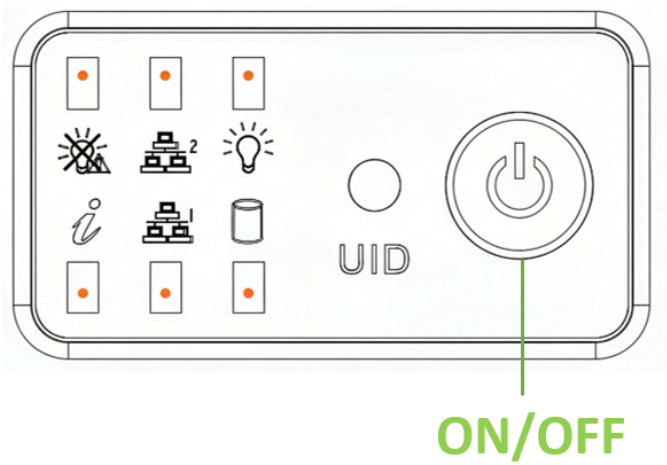
3. Slide the inner rails into the outer rails, keeping the pressure even on both sides. When the chassis has been pushed completely into the rack, it should click into the locked position.



1. Ground the appliance (see Grounding the Appliance).

2. Plug in the power cables (see Power Connections and Initial Power On).

3. Push the ON/OFF button to start.



4. Check the Status LEDs and confirm that all of the LEDs show status lights consistent with normal operation.

> **Note**
>
> Any amber status LEDs are a cause for concern and must be dealt with immediately. It can take up to 5 minutes to boot up, during which time the status LED may indicate red.

Connecting UFM Enterprise Appliance to Network/Fabric

UFM requires both InfiniBand and Ethernet (out-of band management) connectivity where eth0 should be connected to a management network switch and both InfiniBand ports should be connected to InfiniBand switches. They can be connected to the same switch, but NVIDIA recommends connecting to two separate switches, to ensure SM connectivity to the fabric.

Grounding Appliance

Check to determine if your local or national electrical codes require an external ground to all IT components. If so, connect a ground wire to one of the casing screws and connect the other end to a valid ground. If you choose not to use the ground screw, make sure that the rack is properly grounded and that there is a valid ground connection between the chassis of the appliance and the rack. Test the ground using an Ohm meter.

Note

Some national and/or local codes may require IT components to be bonded and externally grounded (not including the power cord ground). You must follow all national and local codes when installing this equipment.

Replacing E1.S Drive

Warning

Never pull out a working hard drive while the appliance is turned on. You can safely pull out a faulty hard drive indicated by a solid amber light.

If one SSD physically fails, the appliance keeps working thanks to RAID mirroring. You can pull out and replace a faulty drive with a new blank SSD, the blank SSD will get synchronized with the other SSD, this takes up to 48 hours but does not interrupt appliance operation.

1. Power down the appliance before removing the SSD
2. Press the release button to open the drive carrier release handle.
3. Holding the drive carrier release handle, slide the drive carrier out of the drive slot.
4. Remove the SSD from its carrier drawer.

5. Hold the release handle and slide the drive carrier into the drive slot.
6. Close the drive carrier release handle to lock the drive in place.
7. Power on the appliance.

> **Note**
>
> The SW RAID mechanism will identify that a new SSD was inserted and synchronize the data with the second SSD, this process might take up to 48 hours to complete.

Battery Replacement

NVIDIA does not support battery replacement. Customer removal of the UFM cover will void the warranty. Only remove the cover to comply with WEEE directives or to disassemble for environmentally approved disposal.

Approved Cables

For information on the approved cables to use with this device, refer to NVIDIA's LinkX webpage.

Appliance Shut Down Procedure

To shut down the appliance, run the following command:

```
reload halt [noconfirm]
```

> **Note**
>
> **The appliance cannot be restarted remotely!**
>
> To restart the appliance, you must physically go to the appliance and unplug and plug in the power cord.

You can also shut down or cold reset the appliance remotely by using the remote management.

Disassembly of Appliance from Rack

To disassemble the appliance from the rack:

1. Shut down the appliance.
2. Unplug and remove all connectors.
3. Unplug all power cords.
4. Remove the ground wire.
5. Unscrew the 2 center bolts from inside the handles.
6. Slide the appliance from the rack.
7. Remove the rail slides from the rack.

Removing Battery

This procedure is only to be used when you are disassembling this appliance before discarding, to comply with regulations regarding disposal of batteries.

1. Remove the cover.
2. Remove the battery and dispose of it according to local and state and federal regulations.

Disposal

Note

According to the WEEE Directive 2002/96/EC, all waste electrical and electronic equipment (EEE) should be collected separately and not disposed of with regular household waste. Dispose of this product and all of its parts in a responsible and environmentally friendly way.

Configuring the Appliance

> ⚠ **Warning**
>
> It is not recommended to reset the BIOS settings to default values (factory settings). Doing so may impact the functionality of the UFM appliance. The future BIOS version will allow a proper reset of default BIOS settings.

The UFM XDR DC Enterprise Appliance has multiple Ethernet management interfaces. The primary management interface is enp99s0f0. The MAC address for enp99s0f0 is available on the pull tab and can be configured in the DHCP server. To use the BMC with DHCP, the free-range IP allocation must be enabled on the DHCP server.

Configure a static IP with Netplan (edit the file `/etc/netplan/01-netcfg.yaml`). For more information, please refer to Ubuntu Server Documentation - Configuring Networks.

Troubleshooting

As soon as the appliance is plugged in, make sure that the green power LEDs on the PS units are on. See section "Hardware Overview" on page for the names and locations of the various LEDs.

Issue	Resolution
System Status LED is RED	Unplug the appliance and call your NVIDIA representative.
The Power Button w/Integrated LED for the appliance shuts off	1. Check that there is adequate ventilation. 2. Make sure that there is nothing blocking the front or rear of the chassis and that the fan modules and ventilation holes are not blocked (especially dust over the holes). 3. If you find dust blocking the holes it is recommended to clean the fan unit and remove the dust from the front and rear panels of the appliance using a vacuum cleaner.
The link LED for the Ethernet connector does not come on	1. Check that both ends of the cable are connected. 2. Check that the locks on the ends are secured. 3. Make sure that the latest firmware version is installed on all the HCA cards and the appliance. 4. If media adapters are used, check that all the connections are good, tight, and secure.
The activity LEDs do not come on	Check that UFM has been started.

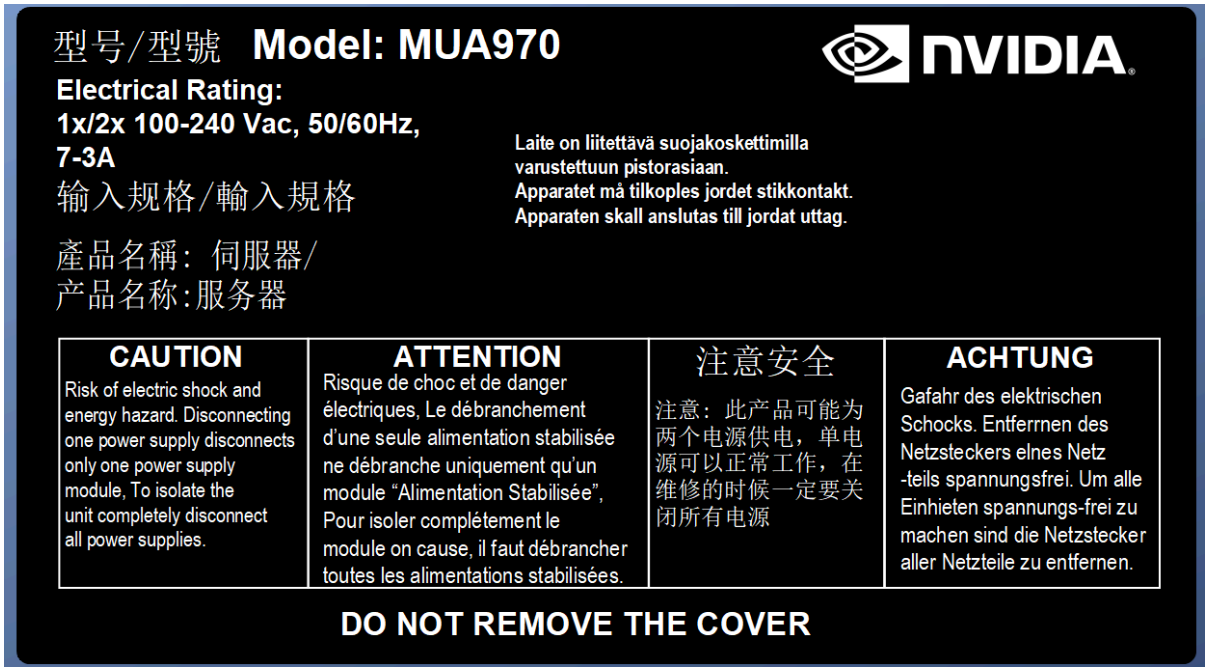
Issue	Resolution
The appliance is off	Press the Power Button w/Integrated LED, If that does not work: 1. Unplug the appliance. 2. Wait 5 minutes. 3. Plug in the appliance and press the Power Button w/Integrated LED. 4. If the appliance does not come on, check the power supplies. 5. If the appliance comes on, Use the UFM management software to determine the cause of the Shutdown. 6. Check the temperature. 7. Check the Fan status.
Hard drive LED is constant amber	SSD is faulty, replace according to instructions in section "Removing a Hard Disk Drive from a 3.5" Hard Drive Carrier".
Hard drive LED is blinking amber	RAID is rebuilding, wait for this operation to complete (might take up to 48 hours). Please refer to Section "3.5 Inch Hard Drive LEDs" and section "Removing a Hard Disk Drive from a 3.5" Hard Drive Carrier" for additional information.
The appliance is not working and is unresponsive	Reset the appliance. If resetting the appliance does not work: 1. Unplug the appliance. 2. Wait 5 minutes. 3. Plug in the appliance and press the Power Button w/Integrated LED. 4. If the appliance does not come on, check the power supplies. 5. If the appliance comes on, use the UFM management software to determine the cause of the shutdown. 6. If the appliance continues to be unresponsive contact NVIDIA Networking Support.

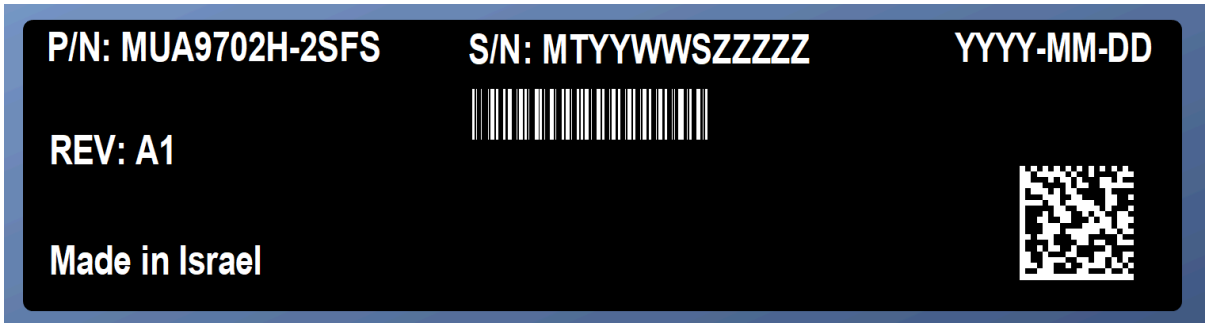
Technical Specifications

UFM Enterprise Appliance Technical Specification Data	
Physical	
Size	2U: • Height – 88 mm (3.46 inches) • Width – 438.4 mm (17.25 inches) • Depth – 809 mm (35.4 inches)
Weight	39.2kg
Mounting	MGX
Power	
DC input voltage	42 Vdc to 58 Vdc
CPU	2 x Intel Xeon Gold 6548Y+
Maximum	1505W
Protocol Support	

UFM Enterprise Appliance Technical Specification Data		
InfiniBand/Ethernet	Auto-negotiation: • X/2X/4X SDR (2.5Gb/s per lane) • DDR (5Gb/s per lane) • QDR (10Gb/s per lane) • FDR10 (10.3125Gb/s per lane) • FDR (14.0625Gb/s per lane) • EDR (25Gb/s per lane) port • HDR (50Gb/s per lane) port • NDR (400Gb/s per lane) • XDR (400Gb/s per lane) Ethernet: 400GAUI-8 C2M, 400GBASE-CR8, 200GAUI-4 C2M, 200GBASE-CR4, 100GAUI-2 C2M, 100GBASE-CR4, 100GBASE-CR2, 100GBASE-CR1, 50GAUI-2 C2M, 50GAUI-1 C2M, 50GBASE-CR, 50GBASE-R2, 40GBASE-CR4, 40GBASE-R2, 25GBASE-R, 10GBASE-R, 10GBASE-CX4, 1000BASE-CX, CAUI-4 C2M, 25GAUI C2M, XLAUI C2M , XLPPI, SFI SGMII Data Rate: SDR	
Data Rate	InfiniBand – SDR/DDR/QDR/FDR/EDR/HDR/NDR Ethernet – 1/10/25/40/50/100/200/400 Gb/s	
Storage		
Hard Drives	2 x 7.68TB E1.S NVMe Mixed Use, Hot-Plug, SED Drive and 2x M.2 960GB NVMe, SED Drive	
Memory	16x64GB DDR5-5600MT/s, RDIMM	
Environmental		
Temperature	Operating	10-35°C
	Non-operating	-30-60°C
Humidity	Operating	8-80% (non-condensing)
	Non-operating	8-90% (non-condensing)
Vibration (5 ~500 Hz)	0.21gr	
Shock	5G (with 10 ms duration, half-sine wave)	
Thermal	Airflow	30 CFM
	Maximum heat dissipation	5153 BTU/hour

Regulatory Label (Example)




P/N: MUA9702H-2SFS
S/N: MTYYWWSZZZZZ
YYYY-MM-DD
REV: A1
Made in Israel

P/N: MUA9702H-2SFS
S/N: MTYYWWSZZZZZ
YYYY-MM-DD
REV: A1
Made in Poland

Field Replaceable Units

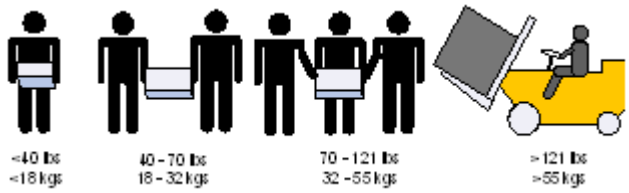
Ordering Number	Part Description
MUA97D-SKIT	Rack installation kit for NVIDIA UFM Appliance Gen 3.5 DC server standard depth racks
MUA97D-SD	NVIDIA UFM Appliance GEN 3.5 DC Solid-state Drive FRU

Appendix – Installation Safety Warnings

Safety warnings are provided in multiple languages for your convenience:

> **Note**
>
> Note that not all warnings may apply to all models.

Switch Safety Warnings (English)

	Installation Instructions Read all installation instructions before connecting the equipment to the power source.
	Bodily Injury Due to Weight Use enough people to lift this product safely. 
	Heavy Equipment This heavy equipment should be moved using a mechanical lift to avoid injuries.

	Risk of Electric Shock! • With the fan module removed power pins are accessible within the module cavity. Do not insert tools or body parts into the fan module cavity. • For AC powered switch systems: Disconnecting one power supply only disconnects one module. To isolate the unit completely, all connected power supplies must be disconnected. In QM97X0/HGX H100 switch systems: for 200-240Vac use only
	Over-temperature This equipment should not be operated in an area with an ambient temperature exceeding the maximum value listed in the product specifications. Moreover, to guarantee proper ventilation, allow at least 8 cm (3 inches) of clearance around the ventilation openings.
	Stacking the Chassis The chassis should not be stacked on any other equipment. If the chassis falls, it can cause bodily injury and equipment damage.
	Redundant Power Supply Connection (OPTIONAL)—Electrical Hazard This product includes a redundant power or a blank in its place. In case of a blank power supply, do not operate the product with the blank cover removed or not securely fastened.
	Double Pole/Neutral Fusing This system has double pole/neutral fusing. Remove all power cords before opening the cover of this product or touching any internal parts.
	Multiple Power Inlets Risk of electric shock and energy hazard. The PSUs are all independent. Disconnect all power supplies to ensure a powered down state inside of the switch platform.
	During Lightning—Electrical Hazard During periods of lightning activity, do not work on the equipment or connect or disconnect cables.
	Copper Cable Connecting/Disconnecting Copper cables are heavy and not flexible, as such they should be carefully attached to or detached from the connectors. Refer to the cable manufacturer for special warnings/instructions.

⚠	Rack Mounting and Servicing When this product is mounted or serviced in a rack, special precautions must be taken to ensure that the system remains stable. In general, the rack should be filled with equipment starting from the bottom to the top.
!	Equipment Installation This equipment should be installed, replaced, and/or serviced only by trained and qualified personnel.
!	Equipment Disposal Disposal of this equipment should be in accordance to all national laws and regulations.
!	Local and National Electrical Codes This equipment should be installed in compliance with local and national electrical codes.
!	Installation Codes This device must be installed according to the latest version of the country national electrical codes. For North America, equipment must be installed in accordance to the applicable requirements in the US National Electrical Code and the Canadian Electrical Code.
⚠	Battery Replacement Warning: Replace only with UL Recognized battery, certified for maximum abnormal charging current not less than 4mA. There is a risk of explosion should the battery be replaced with a battery of an incorrect type. Dispose of used batteries according to the instructions.
!	UL Listed and CSA Certified Power Supply Cord For North American power connection, select a power supply cord that is UL Listed and CSA Certified, 3 - conductor, [16 AWG], terminated with a molded plug rated at 125 V, [13 A], with a minimum length of 1.5m [six feet] but no longer than 4.5m.For European connection, select a power supply cord that is internationally harmonized and marked “<HAR>”, 3 - conductor, minimum 1.0 mm2 wire, rated at 300 V, with a PVC insulated jacket. The cord must have a molded plug rated at 250 V, 10 A.
⚠	Installation Codes This device must be installed according to the latest version of the country's national electrical codes. For North America, equipment must be installed in accordance to the applicable requirements in the US National Electrical Code and the Canadian Electrical Code.
!	Interconnection of Units Cables for connecting to the unit RS232 and Ethernet Interfaces must be UL certified type DP-1 or DP-2. (Note: when residing in non LPS circuit.)

	Overcurrent Protection A readily accessible Listed branch circuit overcurrent protective device rated 20 A must be incorporated in the building wiring. **Acoustic Level Warning** The acoustic level listed in Specifications section represents product noise measured in accordance with ISO 7779 under nominal conditions. The actual noise level can vary depending on the installation conditions, including but not limited to the number of racks in the installation, the overall installation size, rack and other equipment material and noise levels, fan faults, room temperature, room configuration, and employee location in relation to the equipment. The data-center owner should manage effective hearing conservation as per the OSHA standard to protect employees against over and extended exposure to noise.
	Do Not Use the Switch as a Shelf or Work Space Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space. The rails are not intended for sliding the unit away from the rack. It is for permanent installation at final resting place only, not used for service and maintenance.
	WEEE Directive According to the WEEE Directive 2002/96/EC, all waste electrical and electronic equipment (EEE) should be collected separately and not disposed of with regular household waste. Dispose of this product and all of its parts in a responsible and environmentally-friendly way.
	Country of Norway Power Restrictions This unit is intended for connection to a TN power system and an IT power system of Norway only.

Taiwan RoHS Declaration - Switch Systems

設備名稱：伺服器						
單元Unit	限用物質及其化學符號					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印刷電路板	—	○	○	○	○	○
金屬外殼	○	○	○	○	○	○
塑膠件	○	○	○	○	○	○
PCB 板電子零件	—	○	○	○	○	○

備考1. 〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

備考2. 〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

備考3. 〝—〞係指該項限用物質為排除項目。

Taiwan RoHS Declaration - Gateway Systems

設備名稱： 閘道器						
單元Unit	限用物質及其化學符號					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印刷電路板	—	○	○	○	○	○
金屬外殼	○	○	○	○	○	○
塑膠件	○	○	○	○	○	○
PCB 板電子零件	—	○	○	○	○	○

備考1. 〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。

備考2. 〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

備考3. 〝—〞係指該項限用物質為排除項目。

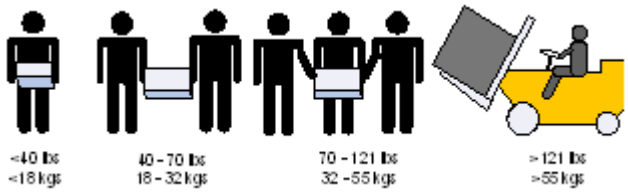
Taiwan BSMI Class A Statement - Warning to the User!

警告：□避免□磁干□，本□品不□安□或使用於住宅□境。

Nordic Countries Notices

⚠	In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"
⚠	In Norway: "Apparatet må tilkoples jordet stikkontakt"
⚠	In Sweden: "Apparaten skall anslutas till jordat uttag"

安□安全性警告 (Simplified Chinese)

	安装指示 本设备附有备援电源供应器或在适当位置配有空白盖板
	因重量导致的人身受伤 为了安全起见，请安排足够的人员以合力抬起本产品。 
	重设备 本设备极重，应使用机械式起重机来搬移，以避免人员受伤。
	有触电的危险 有触电的危险！拆除风扇模组后，即可接触到机箱内模组空缺处的电源针脚。请勿将工具或机身零件放入机箱内风扇模组空缺处。
	温度过高 本设备不应在超过所建议的最高环境温度的区域中运作：45°C (113°F)。此外，为 了保证气流的流通正常，请在通风口旁保留至少 8 公分 (3 英□) 的间距。
	堆叠机箱 机箱不应堆叠在任何其他设备上。如果机箱掉落，可能造成人员受伤与设备损坏。
	备用电源供应器连接时的电击危险 本设备附有备援电源供应器或在适当位置配有空白盖板。有关电源供应器, 在空白盖板已取下或未牢牢固定的情况下，请勿操作本产品
	双极/中性保险丝 本系统具有双极 / 中性保险丝。请拔掉所有电源线后，再打开本产品的盖板或 碰触任何内部零件。
	多电源输入座 电击与能源危害的危险。所有 PSU 均各自独立。请将所有电源供应器断电，以确保交换器设备内部的电源为关闭状态。
	□□□的□□危□ 在□□期□，不要使用本□□或□接或拔下□□。
	机架安装与维修 此产品已安装在机架中或在机架中维修时，必须采取特定预防措施以确保系统 维持稳定。一般您应该将设备从底部到顶端放满机架。

⚠	设备安装 本设备仅限由经过训练与 / 或合格的人员安装、更换或维修。
!	设备弃置 弃置本设备应遵照所有国内法规。
!	当地与国家电气法规 请遵照当地与国家电气法规安装本设备。
!	安装法规 请务必遵循最新版的国家电气法规，安装本设备。在北美地区，请务必遵循美 国国 家电工法规和加拿大电工法规中的适用规定，安装本设备。
!	更换电池 警告：只能以 UL 认可电池，且取得最大异常充电电流低于 4mA 认证的电池进 行更换。若更换错误类型的电池，会有爆炸的危险。请依据指示弃置废电池。
⚠	UL 列名和 CSA 认证电源线 北美地区在接上电源时，请选用获得UL 列名和CSA 认证3- 导体[16AWG] 附成型插 头，额定值为125 V、[13 A]，长度至少1.5 公尺[六英尺]，但不超过4.5 公尺的电源 线。欧洲地区在接上电源时，请选用国际协调式且标示有 <HAR> -3字样、导体标示截面 至少1.0 平方公厘，额定值为 300 V，采用 PVC 绝缘的电源线。电源线需有成型插头，额定值为 250 V, 10 A。
!	高漏流 警告： 高漏电流；必须执行地线连接，然后再连接电源供应器。
⚠	安装法规 请务必遵循最新版的国家电气法规，安装本设备。在北美地区，请务必遵循美 国国 家电工法规和加拿大电工法规中的适用规定，安装本设备。
!	互连设备 连接至 RS232 设备和乙太网路介面的缆线必须是 UL 认证类型 DP-1 或 DP-2。(请注意- 若放置于无 LPS 电路时)
!	请勿将交换机作为机架与工作空间使用 小心：具有滑轨 / 导轨设备不可用作机架或工作空间。导轨不适用于将设备滑出机架使用。仅限永久安装在最后安置区域时使用，不可用于维修和保养。
	WEEE 指令 根据 WEEE 指令 2002/96/EC，所有废弃的电气与电子设备 (EEE)，应分开集 中，而且不应与一般家庭废弃物一起弃置。请以负责和环保的方式弃置本产品及其所有零件。

	挪威国家电源限制 本设备仅限连接至挪威的 TN 电源系统和 IT 电源系统。

China CCC Warning Statement

在维修的时候一定要断开所有电源 (English translation “disconnect all power sources before service”)

汉文	仅适用于非热带气候条件下安全使用。
藏文	□□□□

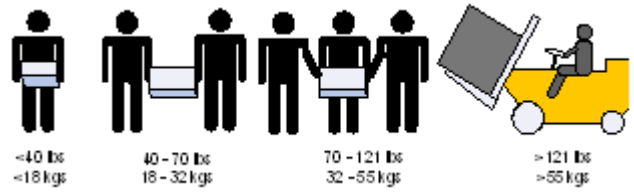
This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

Taiwan RoHS Declaration

Taiwan BSMI Class A Statement - Warning to the User!

警告：□避免□磁干□，本□品不□安□或使用於住宅□境。

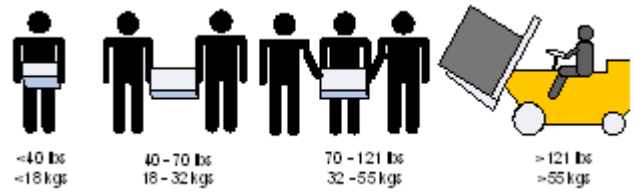
安□安全性警告 (Traditional Chinese)

	安□指示 本□□附有□援□源供□器或在□□位置配有空白□板。
	因重量□致的人身受□ □了安全起□，□安排足□的人□以合力抬起本□品。 
	重□□ 本□□□重，□使用□械式起重□□搬移，以避免人□受□。
	有□□的危□ 有□□的危□！拆除□扇模□□，即可接□到□箱□模□空缺□的□源□□。□勿□工具或□身零件放入□箱□□扇模□空缺□。
	□度□高 本□□不□在超□所建□的最高□境□度的□域中□作：45 °C (113 □)。此外，□了保□□流的流通正常，□在通□口旁保留至少 8 公分 (3 英□) 的□距。

	堆□□箱 □箱不□堆□在任何其他□□上。如果□箱掉落，可能造成人□受□□□□□□。
	□用□源供□器□接□的□□危□ 本□□附有□援□源供□器或在□□位置配有空白□板。有□□源供□器，在空白□板已取下或未牢牢固定的情□下，□勿操作本□品
	□□ / 中性保□□ 本系□具有□□ / 中性保□□。□拔掉所有□源□□，再打□本□品的□板或□碰任何□部零件。
	多□源□入座 □□□能源危害的危□。所有 PSU 均各自□立。□□所有□源供□器□□，以□保交□器□□□部的□源□□□□□。
	□□□的□接□移除 □□□重且不易□折，因此□仔□□接或□□接器端口分。□□□□□□造商了解特殊警告 / □明。
	□架安□□□修 此□品已安□在□架中或在□架中□修□，必□□取特定□防措施以□保系□□持□定。一般您□□□□□□底部到□端放□□架。
	□□安□ 本□□□限由□□□□ / 或合格的人□安□、更□或□修。
	□□□置 □置本□□□遵照所有□□法□。
	□地□□家□□法□ □遵照□地□□家□□法□安□本□□。
	安□法□ □□必遵循最新版的□家□□法□，安□本□□。在北美地□，□□必遵循美□□家□工法□和加拿大□工法□中的□用□定，安□本□□。
	更□□池 警告：只能以 UL □可□池，且取得最大□常充□□流低於 4mA □□的□池□行更 □。若更□□□□型的□池，□有爆炸的危□。□依□指示□置□□池。
	UL 列名和 CSA □□□源□ 北美地□在接上□源□，□□用□得 UL 列名和 CSA □□ 3- □□ [16AWG] 附成型 插□，□定值□ 125V、[13 A]，□度至少 1.5 公尺 [六英尺]，但不超□ 4.5 公尺的□源□。□洲地□在接上□源□，□□用□□□□式且□示有 <HAR> -3 字□、□□□示截 面至少 1.0 平方公厘，□定值□ 300 V，□用 PVC □□的□源□。□源□□有成行插□，□定值□ 250V、10A。

	高漏□流 警告：高漏□流；必□□行地□□接，然□再□接□源供□器。
	安□法□ □□必遵循最新版的□家□□法□，安□本□□。在北美地□，□□必遵循美□□ 家□工法□和加拿大□工法□中的□用□定，安□本□□。
	互□□□ □接至 RS232 □□和乙太□路介面的□□必□是 UL □□□型 DP-1 或 DP-2。（□注意 – 若放置於□ LPS □路□）。
	切□□□不可用作□架或工作空□ 小心：滑□/□□安□□□不可用作□架或工作空□。□□不□用於□□□滑出□架使用。□限永久安□在最□安置□域□使用，不可用於□修和保□。
	WEEE 指令 根□ WEEE 指令 2002/96/EC，所有□□的□□□□子□□ (EEE)，□分□集中，而且不□□一般家庭□□物一起□置。□以□□和□保的方式□置本□品及其所有零件。
	挪威□家□源限制 本□□□限□接至挪威的 TN □源系□和 IT □源系□。

Avertissements de sécurité pour l'installation (French)

	Instructions d'installation Veuillez lire la totalité des instructions d'installation avant de relier l'équipement au secteur.
	Blessures à cause du poids Prévoyez assez de personnel pour soulever ce produit en toute sécurité. 
	Équipement lourd Cet équipement est lourd et doit être déplacé avec un système de levage mécanique pour éviter les blessures.

	Danger d'électrocution Danger d'électrocution ! Lorsque le module de ventilation est retiré, les broches d'alimentation sont exposées dans l'emplacement du module. NE PAS insérer d'outils ou la main dans l'emplacement du module.
	Surchauffe Cet équipement ne doit pas être en service dans un local dont la température dépasse le maximum recommandé de 45°C (113°F). En outre et pour garantir une circulation d'air correcte, laisser un espace d'au moins 8 cm (3") autour des orifices de ventilation.
	Châssis empilé sur d'autres équipements Le châssis ne doit pas être empilé sur d'autres équipements. S'il tombe, il peut endommager l'équipement ou entraîner des blessures.
	Connexion de l'alimentation redondante : danger d'électrocution Ce produit est équipé d'une alimentation redondante ou d'un cache si elle est absente. Dans ce dernier cas, ne pas faire fonctionner le produit si le cache est retiré ou mal fixé.
	Fusibles phase/neutre Ce système dispose de fusibles phase/neutre. Débranchez tous les cordons d'alimentation avant d'ouvrir le capot ou de toucher tout élément à l'intérieur.
	Plusieurs prises d'alimentation Risque et danger d'électrocution.Les alimentations sont toutes indépendantes. Pour s'assurer que le commutateur est bien hors tension, débranchez toutes les alimentations.
	En cas d'orage, danger d'électrocution Pendant un orage, ne pas travailler sur l'équipement ni brancher ou débrancher des câbles.
	Connexion et déconnexion du câble en cuivre Les câbles en cuivre sont lourds et peu flexibles. Par conséquent, il faut procéder avec soin pour les brancher ou les débrancher des connecteurs. Consulter le fabricant du câble pour obtenir des instructions ou des avertissements spécifiques.
	Montage en rack et maintenance Lors du montage ou de la maintenance de ce produit dans un rack, il faut faire spécialement attention pour s'assurer que l'ensemble reste stable. En règle générale, le rack doit être rempli en commençant par le bas.
	Installation de l'équipement Cet équipement ne doit être installé, remplacé et maintenu que par un personnel formé et qualifié.

	Mise au rebut de l'équipement La mise au rebut de cet équipement doit se faire conformément à toutes les lois et réglementations nationales.
	Codes électriques locaux et nationaux Cet équipement doit être installé conformément aux codes électriques locaux et nationaux.
	Codes d'installation Cet appareil doit être installé conformément à la version la plus récente des codes électrique nationaux. En Amérique du Nord, l'équipement doit être installé en respectant les exigences de l'US National Electrical Code et du Code canadien de l'électricité.
	Remplacement de la batterie Avertissement: ne remplacer qu'avec une batterie UL, certifiée pour accepter un courant de charge anormal maximal supérieur ou égal à 4 mA. Si la batterie n'est pas remplacée par un type correct, il y a un risque d'explosion. Les batteries usagées doivent être mises au rebut conformément aux instructions.
	Cordon d'alimentation UL Listed et certifié CSA Pour le branchement électrique en Amérique du Nord, utiliser un cordon d'alimentation UL Listed et CSA Certified, à 3 conducteurs [calibre 16 AWG], avec une prise moulée 125 V [13 A], faisant au moins 1,5 m de long [six pieds] et au plus 4,5 m. Pour le branchement électrique en Europe, utiliser un cordon d'alimentation au format international harmonisé (marqué <HAR>), à 3 conducteurs d'au moins 1 mm2 de section, 300 V, avec une gaine isolante en PVC. Le cordon doit avoir une prise moulée 250 V 10 A.
	Courant de fuite élevé Avertissement: courant de fuite élevé, une connexion à la terre est indispensable avant de brancher l'alimentation.
	Codes d'installation Cet appareil doit être installé conformément à la version la plus récente des codes électrique nationaux. En Amérique du Nord, l'équipement doit être installé en respectant les exigences de l'US National Electrical Code et du Code canadien de l'électricité.
	Interconnexion des unités Les câbles de connexion aux interfaces RS232 et Ethernet de l'appareil doivent être certifié UL de type DP-1 ou DP-2. (Note : en cas d'installation sur un circuit dont la puissance n'est pas limitée) Protection contre les surintensités : le câblage de l'immeuble doit intégrer un dispositif certifié de protection contre les surintensités, calibré à 20 A et aisément accessible.

	Ne pas utiliser comme étagère ou plan de travail Attention: un équipement coulissant ou monté sur rail ne doit pas servir d'étagère ni de plan de travail. Les rails ne sont pas destinés à faire coulisser l'unité hors du rack. Ils sont destinés à une installation permanente à l'emplacement final, pas pour l'entretien ni la maintenance.
	Directive DEEE Selon la Directive 2002/96/CE (DEEE), tous les déchets d'équipements électriques et électroniques (EEE) doivent être collectés séparément et ne pas être mis au rebut avec les déchets ménagers habituels. Ce produit et toutes ses pièces doivent être mis au rebut d'une manière responsable, respectant l'environnement.
	Restrictions concernant l'alimentation pour la Norvège Cet appareil est prévu pour être relié à un système d'alimentation TN et un système d'alimentation informatique de Norvège uniquement.

Installation Sicherheitshinweise (German)

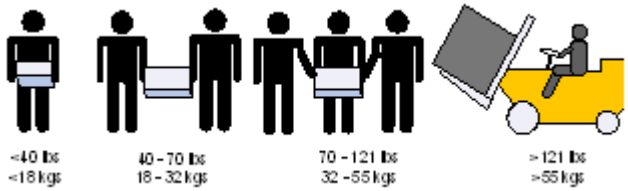
	Installationsanleitungen Lesen Sie alle Installationsanleitungen, bevor Sie das Gerät an die Stromversorgung anschließen.
	Verletzungsgefahr wegen des Gewichts Um das Produkt sicher anzuheben, genügend Personen einsetzen.
	Schweres Gerät Dieses Gerät ist schwer und muss mit einem mechanischen Hebegerät verschoben werden, um Verletzungen zu vermeiden.
	Stromschlagrisiko Stromschlagrisiko! Bei abgenommenem Ventilatormodul sind die Stromkontakte in der Modulvertiefung zugänglich. Es dürfen KEINE Werkzeuge oder Körperteile in die Vertiefung des Ventilatormoduls gelangen.
	Übertemperatur Dieses Gerät sollte nicht in einem Bereich mit einer Umgebungstemperatur über der maximal empfohlenen Temperatur von 45°C (113°F) betrieben werden. Es ist ein Luftstrom von 200 LFM bei maximaler Umgebungstemperatur erforderlich. Außerdem sollten mindestens 8 cm (3 in.) Freiraum um die Belüftungsöffnungen sein, um einen einwandfreien Luftstrom zu gewährleisten.
	Stapeln des Chassis Das Chassis sollte nicht auf andere Geräte gestapelt werden. Wenn das Chassis herunterfällt, kann es zu Verletzungen und Beschädigungen an Geräten führen.

	Zweipolig/Neutrale Sicherung Achtung: Zweipolige bzw. Neutralleiter-Sicherung im Netzteil. Netzstecker ziehen, um sicherzustellen, daß keine Spannung am Gerät anliegt. Entfernen Sie alle Netzkabel vor dem Öffnen der Abdeckung dieses Produkts oder dem Berühren der Innenteile.
	Mehrere Stromeingänge Risiko eines Stromschlags und Stomgefahr. Alle Stromversorgungseinheiten sind unabhängig. Trennen Sie alle Stomversorgungen, um einen abgeschalteten Zustand im Inneren der Switch-Plattform sicherzustellen.
	Bei Gewitter - Elektrische Gefahr Arbeiten Sie während eines Gewitters und Blitzschlag nicht am Gerät, schließen Sie keine Kabel an oder ab.
	Anschließen/Trennen von Kupferkabel Kupferkabel sind schwer und nicht flexible. Deshalb müssen sie vorsichtig an die Anschlüsse angebracht bzw. davon getrennt werden. Lesen Sie die speziellen Warnungen und Anleitungen des Kabelherstellers.
	Rack-Montage und Wartung Wenn dieses Produkt in einem Rack montiert oder gewartet wird, sind besondere Vorsichtsmaßnahmen zu ergreifen, um die Stabilität des Systems zu gewährleisten. Im Allgemeinen sollten Sie das Gestell von unten nach oben mit Geräten füllen.
	Geräteinstallation Diese Gerät sollte nur von geschultem und qualifiziertem Personal installiert, ausgetauscht oder gewartet werden.
	Geräteentsorgung Die Entsorgung dieses Geräts sollte unter Beachtung aller nationalen Gesetze Bestimmungen erfolgen.
	Regionale und nationale elektrische Bestimmungen Dieses Gerät sollte unter Beachtung der regionalen und nationalen elektrischen Bestimmungen installiert werden.
	Installationscodes Dieses Gerät muss entsprechend der aktuellsten Version des National Electrical Code installiert weden. In Nodamerika muss das Gerät gemäß den geltenden Anforderungen des US National Electrical Code und des Canadian Electrical Code installiert werden.
	Akkuaustausch Warnung: Nur durch von UL anerkannten Akkus ersetzen, die für maximalen anormalen Ladestrom von nicht weniger als 4mA zertifiziert sind. Es besteht Explosiionsgefahr, wenn der Akku durch einen Akku eines falschen Typs ersetzt wird. Akkus gemäß den Anweisungen entsorgen.

⚠	UL- und CSA-zertifiziertes Netzkabel Für Nordamerika Stromanschluss, wählen Sie ein Netzkabel, das UL-und CSA Certified 3 - Leiter, [18 AWG], mit einem angespritztem Stecker bewertet bei 125 V, [15], mit einer Mindestlänge von 1,5 m [Six Feet] aber nicht mehr als 4,5 m. Für die europäischen Zusammenhang, wählen Sie ein Netzkabel, das international harmonisiert und der Aufschrift "<HAR>", 3 - Leiter, mindestens 0,75 mm2 Draht, bewertet mit 300 V, mit einem PVC-Mantel isoliert. Das Kabel muss eine angespritztem Stecker bewertet bei 250 V, 10 A.
!	Hoher Ableitstrom WARNUNG: Hohe Ableitstrom; Earth Verbindung, bevor Sie die Verbindung von wesentlicher Bedeutung werden
⚠	Installationscodes Dieses Gerät muss installiert sein, entsprechend auf die neueste Version des Landes National Electrical Code. Für Nordamerika, müssen in Übereinstimmung mit den geltenden Vorschriften in der US-amerikanischen National Electrical Code und dem Canadian Electrical Code.
!	Verbindung der Geräte untereinander Kabel für den Anschluss an das Gerät RS232-und Ethernet-Schnittstellen müssen UL zertifiziert Typ DP-1 oder DP-2. (Hinweis-, wenn nicht mit Wohnsitz in LPS-Schaltung) Überstromschutz: Eine leicht zugängliche Auflistung Abzweigleitung Überstrom-Schutzeinrichtung 20 A bewertet werden müssen in dem Gebäude Verkabelung.
	Switch nicht als Regal oder Arbeitsplatz nutzen Achtung: Auf Schieber/Schienen montiertes Gerät ist nicht als Regal oder Arbeitsbereich zu nutzen. Die Schienen sind nicht dafür bestimmt, die Einheit aus dem Gestell weg zu ziehen. Sie sind nur für die permanente Installation an einem endgültigen Standort gedacht, nicht für Instandhaltung und Wartung.
	WEEE-Direktive Gemäß WEEE Directive 2002/96/EC müssen alle elektrischen und elektronischen Abfallgeräte (EEE) separat gesammelt und nichit mit normalem Haushaltsmüll ensorgt werden. Dieses Produkt und alle seine Teile in verantwortungsvoller und umweltfreundlicher Art und Weise entsorgen.

Advertencias de seguridad de instalación (Spanish)

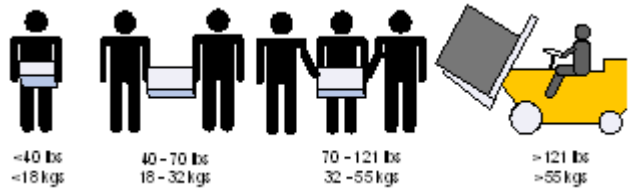
!	Instrucciones de instalación Antes de conectar el equipo a la fuente de alimentación, leer todas las instrucciones de instalación.

⚠	Lesión corporal a causa de peso Recurra a suficientes personas para levantar este producto sin. 
⚠	Equipos pesados Dado que el equipo es pesado, se debe mover únicamente mediante un elevador mecánico, para evitar lesiones.
⚠	Riesgo de descarga eléctrica Con el módulo del ventilador quitado, se obtiene acceso a las clavijas de alimentación desde dentro de la cavidad del módulo. NO introducir herramientas ni partes del cuerpo en la cavidad del módulo del ventilador.
ⓘ	Sobretemperatura No se debe utilizar el equipo en un área con una temperatura ambiente superior a la máxima recomendada: 45°C. Además, para garantizar una circulación de aire adecuada, se debe dejar como mínimo un espacio de 8 cm (3 pulgadas) alrededor de las aberturas de ventilación.
⚠	Apilamiento del chasis Los chasis no se deben apilar sobre otros equipos. La caída del chasis podría causar lesiones corporales, así como daños al equipo.
⚠	Conexión redundante de fuente de alimentación: peligro de descarga Este producto incluye una fuente de alimentación redundante o, en su lugar, una vacía. Si se dispone de una fuente de alimentación vacía, no utilizar el producto si su tapa está quitada o no está bien cerrada.
⚠	Fusible neutro o de polo doble Dos fusibles, uno en el polo y otro en el neutro. Quitar los cables de corriente antes de abrir la tapa de este producto o tocar cualquier componente interno.
⚠	Tomas de alimentación múltiples Riesgo de descarga eléctrica y peligro de corriente. Todas las fuentes de alimentación son independientes. Desconecte todas las fuentes de alimentación, para asegurar que no haya corriente alguna dentro de la plataforma de conmutación.
⚠	Al haber rayos: peligro de descarga No utilizar el equipo ni conectar o desconectar cables durante períodos de actividad de rayos.

	La conexión y desconexión de cables de cobre Dado que los cables de cobre son pesados y no son flexibles, su conexión a los conectores y su desconexión se deben efectuar con mucho cuidado. Para ver advertencias o instrucciones especiales, consultar al fabricante del cable.
	Montaje y mantenimiento del bastidor Al instalar o realizar el mantenimiento de este aparato en un bastidor, es preciso adoptar precauciones especiales para garantizar que el sistema se mantenga estable. En general, en un bastidor, los equipos se deben instalar comenzando desde abajo hacia arriba.
	Instalación del equipo La instalación, el reemplazo y el mantenimiento de este equipo estarán a cargo únicamente de personal capacitado y competente.
	Eliminación del equipo La eliminación definitiva de este equipo se debe efectuar conforme a todas las leyes y reglamentaciones nacionales.
	Códigos eléctricos locales y nacionales Este equipo se debe instalar conforme a los códigos eléctricos locales y nacionales.
	Códigos de instalación Este dispositivo se debe instalar conforme a la versión más reciente de los códigos eléctricos nacionales del país en cuestión. En América del Norte, el equipo se debe instalar de acuerdo con las disposiciones vigentes del Código Eléctrico Nacional de los EE.UU. y del Código Eléctrico de Canadá.
	Cambio de batería Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.
	Cable de alimentación homologado por UL y con certificación CSA En conexiones de América del Norte, seleccionar un cable de alimentación homologado por UL y con certificación CSA de tres conductores, [16 AWG], terminado en un enchufe moldeado con capuchón de 125 voltios nominal, [13 A], con una longitud mínima de 1,5 metros, pero no más de 4,5 metros. En conexiones europeas, seleccionar un cable de alimentación armonizado internacionalmente y marcado "<HAR>", de tres conductores, hilo de 1,0 mm2 como mínimo, 300 voltios nominal, con cobertura protectora aislante de PVC. El cable debe tener un enchufe moldeado con capuchón de 250 voltios nominal, 10 A.
	Alta corriente de fuga ADVERTENCIA: Alta corriente de fuga. Es esencial efectuar la conexión a tierra antes de conectar la alimentación.

	Códigos de instalación Este dispositivo se debe instalar conforme a la versión más reciente de los códigos eléctricos nacionales del país en cuestión. En América del Norte, el equipo se debe instalar de acuerdo con las disposiciones vigentes del Código Eléctrico Nacional de los EE.UU. y del Código Eléctrico de Canadá.
	Interconexión de unidades Los cables para la conexión con las interfaces RS232 y Ethernet de la unidad deben estar homologados por UL tipo DP-1 o DP-2. (Nota: cuando residen en circuito no de tipo LPS) Protección contra sobrecargas: Al cableado del edificio se debe incorporar un dispositivo de protección contra sobrecargas de circuito derivado, de fácil acceso, con una corriente nominal de 20 A.
	No utilizar el conmutador como estante ni como espacio de trabajo Cuidado: Equipos montados en deslizadores o rieles no se deben utilizar como estantes ni como espacio de trabajo. La finalidad de los rieles no es deslizar la unidad hacia afuera del bastidor. Sirven solo para la instalación permanente en el lugar de destino final, no para fines de servicio o mantenimiento
	Directiva WEEE Conforme a la Directiva 2002/96/CE sobre RAEE, todos los residuos de equipos eléctricos y electrónicos (EEE) se deben recolectar por separado y no se deben eliminar junto con residuos domésticos. Al deshacerse de este producto y de todas sus partes, hágalo de una manera responsable y respetuosa con el medio ambiente.

Предупреждения по технике безопасности при установке (Russian)

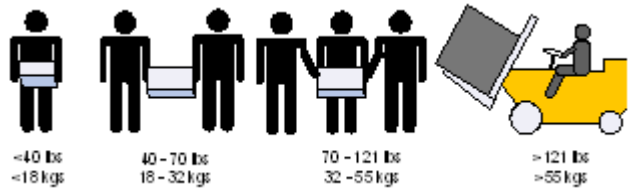
	Инструкция по установке Перед подключением оборудования к источнику питания следует ознакомиться с инструкцией по установке.
	Травмы при переносе тяжелых предметов Для поднятия этого изделия следует задействовать достаточное количество людей. 

	Тяжелое оборудование Это тяжелое оборудование, поэтому его следует перемещать с помощью механического подъемника во избежание травм.
	Опасность поражения электрическим током Опасность поражения электрическим током! Когда снят вентиляторный модуль, существует возможность повреждения контактов питания в его углублении. НЕ вставлять инструменты или части тела в углубление вентиляторного модуля.
	Перегрев Не эксплуатировать это оборудование в помещении с температурой окружающей среды, превышающей максимально рекомендуемое значение: 45 °C (113 °F). Более того, для надлежащей вентиляции следует обеспечить зазор вокруг вентиляционных отверстий не менее 8 см (3 дюйма).
	Установка шасси поверх другого оборудования Не устанавливать шасси поверх другого оборудования. Падение шасси может привести к травмам и повреждению оборудования.
	Опасность поражения электрическим током резервного источника питания В этом изделии установлен резервный источник питания или модуль-заглушка. Если установлен модуль-заглушка, не эксплуатировать изделие со снятой или ненадежно закрепленной крышкой модуля-заглушки.
	Двухполюсный предохранитель на фазном и нейтральном проводах В этой системе установлен двухполюсный предохранитель на фазном и нейтральном проводах. Открывать кожух этого изделия или касаться внутренних деталей можно только после отсоединения всех шнуров питания.
	Несколько источников питания Опасность поражения электрическим током и опасные энергетические воздействия. Блоки питания независимы друг от друга. Чтобы обесточить все компоненты внутри платформы коммутации, следует отсоединить все блоки питания.
	Опасность поражения электрическим током во время грозы Во время грозы запрещается работать с оборудованием и подключать или отключать кабели.
	Подсоединение и отсоединение медных кабелей Медные кабели тяжелые и негибкие, поэтому следует осторожно их подсоединять и отсоединять. За особыми предупреждениями и указаниями следует обратиться к производителю кабеля.
	Установка или обслуживание в стойке При установке или обслуживании этого изделия в стойке следует обеспечить устойчивость системы. Как правило, стойка заполняется оборудованием снизу вверх.

	Установка оборудования Устанавливать, заменять и/или обслуживать это оборудование должен только подготовленный и квалифицированный персонал.
	Утилизация оборудования Это оборудование утилизируется в соответствии с национальными законами и постановлениями.
	Местные и национальные правила установки электрооборудования Это оборудование устанавливается в соответствии с местными и национальными правилами установки электрооборудования.
	Правила установки электрооборудования Это устройство устанавливается в соответствии с последним изданием национальных правил установки электрооборудования. В Северной Америке оборудование устанавливается в соответствии с действующими требованиями Национальных правил эксплуатации и обслуживания электрических установок США и Канады.
	Замена аккумулятора Осторожно! Заменять только аккумулятором, одобренным организацией UL и рассчитанным на максимальный аномальный зарядный ток не менее 4 мА. Существует риск взрыва при замене аккумулятора другим аккумулятором неправильного типа. Отработавшие аккумуляторы утилизируются в соответствии с указаниями.
	Шнур питания, включенный в номенклатуру UL и сертифицированный Канадской ассоциацией стандартизации (CSA) Подключение к электропитанию в Северной Америке выполняется с помощью шнура питания, включенного в номенклатуру UL и сертифицированного Канадской ассоциацией стандартизации (CSA), 3-жильного, [16 AWG], длиной от 1,5 м [6 футов] до 4,5 м, с литой вилкой, рассчитанной на 125 В [13 А]. Подключение к электропитанию в Европе выполняется с помощью гармонизированного шнура питания с маркировкой <HAR>, 3-жильного, с сечением жилы не менее 1,0 мм², рассчитанного на номинальное напряжение 300 В, с ПВХ оболочкой. Шнур должен иметь литую вилку, рассчитанную на 250 В, 10 А.
	Высокий ток утечки Осторожно! Высокий ток утечки. Заземлить перед подключением к электропитанию.

	Правила установки электрооборудования Это устройство устанавливается в соответствии с последним изданием национальных правил установки электрооборудования. В Северной Америке оборудование устанавливается в соответствии с действующими требованиями Национальных правил эксплуатации и обслуживания электрических установок США и Канады.
	Защита от перегрузки по току Цепь подвода питания дожна быть оборудована устройством защитного отключения от сети на ток 20A, которое находится в легкодоступном месте.
	Подсоединение устройств Для подключения к разъемам RS232 и Ethernet используются кабели типа DP-1 или DP-2, сертифицированные организацией UL. (Примечание. При подключении к сети без ограниченного источника электропитания) Максимальная токовая защита. В проводку здания в легкодоступном месте следует включить устройство защиты от перегрузки по току номиналом 20 A.
	Не использовать коммутатор как полку или рабочую поверхность Внимание! Оборудование, установленное на направляющих, не должно использоваться как полка или рабочая поверхность. Направляющие не предназначены для удерживания устройства, выдвинутого из стойки. Они предназначены для стационарной установки только в конечном положении и не используются для обслуживания устройства.
	Директива WEEE В соответствии с Директивой 2002/96/EC (WEEE) отходы электрического и электронного оборудования должны собираться и утилизироваться отдельно от обычных бытовых отходов. Следует утилизировать это изделие и все его части ответственным и экологически безопасным способом.

Avertismente privind siguranţa la instalare (Romanian)

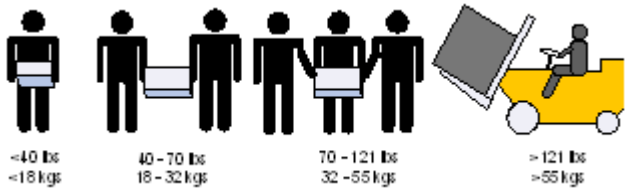
	Instrucţiuni de instalare Citiţi toate instrucţiunile de instalare înainte de a conecta.
	Accidentare cauzată de greutate Apelaţi la un număr suficient de persoane pentru a ridica în siguranţă acest produs. 

	Echipament greu Acest echipament este greu şi trebuie să fie mutat folosind un dispozitiv mecanic de ridicare pentru a evita producerea de leziuni.
	Risc de şoc electric Odată ce modulul ventilator este îndepărtat, pinii electrici sunt accesibili în cavitatea modulului. NU introduceţi instrumente sau părţi din corp în cavitatea modulului ventilator.
	Temperatură în exces Acest echipament nu trebuie să fie acţionat într-o zonă unde temperatura ambiantă depăşeşte valoarea maximă recomandată: 45°C (113°F). În plus, pentru a asigura un flux de aer adecvat, lăsaţi un spaţiu liber de cel puţin 8 cm (3 inchi) în jurul fantelor de ventilare.
	Suprapunerea cadrului Cadrul nu trebuie să fie suprapus peste niciun alt echipament. În cazul în care cadrul cade, poate cauza leziuni corporale şi deteriorări ale echipamentului.
	Conexiunea la o sursă de alimentare electrică suplimentară - pericol electric Acest produs include o sursă de alimentare suplimentară sau un spaţiu gol în locul acesteia. În cazul în care spaţiul pentru sursa de alimentare este gol, nu operaţi produsul când capacul orb este îndepărtat sau nu este fixat în mod sigur.
	Siguranţă fuzibilă bipolară/neutră Acest sistem este prevăzut cu siguranţă fuzibilă bipolară/neutră. Îndepărtaţi toate cordoanele de alimentare înainte de a deschide capacul acestui produs sau înainte de a atinge orice componente interne.
	Multiple mufe electrice Risc de şoc electric şi pericol electric. Toate aparatele cu alimentare de la reţea sunt independente. Deconectaţi toate sursele de alimentare cu energie pentru a asigura decuplarea în interiorul platformei de comutare.
	În timpul descărcărilor electrice - pericol electric În timpul perioadelor cu descărcări electrice luminoase, nu lucraţi cu echipamentul sau nu conectaţi sau deconectaţi cablurile.
	Conectarea/deconectarea cablului din cupru Cablurile din cupru sunt grele şi inflexibile, de aceea trebuie să fie ataşate sau detaşate de conectori cu grijă. Consultaţi producătorul de cabluri pentru avertismente/instrucţiuni speciale.
	Montarea sau depanarea într-un rack Când acest produs este montat sau depanat într-un rack, trebuie să fie luate măsuri de precauţie speciale pentru a se asigura că sistemul rămâne stabil. În general, trebuie să umpleţi rack-ul cu echipamente începând de jos în sus.

	Instalarea echipamentului Acest echipament trebuie să fie instalat, înlocuit şi/sau depanat numai de către personal instruit şi calificat.
	Eliminarea echipamentului Eliminarea acestui echipament trebuie să se realizeze în conformitate cu toate legile şi regulamentele naţionale.
	Codurile electrice locale şi naţionale Acest echipament trebuie să fie instalat conform codurilor electrice locale şi naţionale.
	Codurile ed instalare Acest dispozitiv trebuie să fie instalat în conformitate cu ultima versiune a codurilor electrice naţionale ale ţării în cauză. Pentru America de Nord, echipamentul trebuie să fie instalat conform cerințelor aplicabile din Codul electric naţional al SUA şi Codul electric canadian.
	Înlocuirea bateriei Avertisment: Înlocuiţi numai cu o baterie recunoscută UL, certificată pentru curent de încărcare anormal maxim de minimum 4 mA Există risc de explozie în cazul în care bateria este înlocuită cu o baterie necorespunzătoare. Eliminaţi bateriile folosite în conformitate cu instrucţiunile.
	Cordon de alimentare electrică înregistrat UL şi certificat CSA Pentru conectarea la o sursă de alimentare pentru America de Nord, selectaţi un cordon de alimentare care este înregistrat UL şi certificat CSA, cu 3 conductoare, [16 AWG], terminat cu o fişă turnată, cu putere nominală egală cu 125 V, [13 A], cu o lungime de minimum 1,5 m [şase picioare], dar nu mai lung de 4,5 m. Pentru conectarea la o sursă de alimentare în Europa, selectaţi un cordon de alimentare care este armonizat la nivel internaţional şi marcat „<HAR>”, cu 3 conductoare, cu minimum 2 fire de 1,0 mm, cu putere nominală egală cu 300 V şi cu o manta izolantă din PVC. Cordonul de alimentare trebuie să fie prevăzut cu o fişă turnată cu putere nominală egală cu 250 V, 10 A.
	Curent de scurgere de înaltă frecvenţă Avertisment: Curent de scurgere de înaltă frecvenţă; Împământarea este esenţială înainte de a conecta sursa de alimentare.
	Codurile de instalare Acest dispozitiv trebuie să fie instalat în conformitate cu ultima versiune a codurilor electrice naţionale ale ţării în cauză. Pentru America de Nord, echipamentul trebuie să fie instalat conform cerințelor aplicabile din Codul electric naţional al SUA şi Codul electric canadian

	Interconectarea unităţilor Cablurile pentru conectarea la unitatea RS232 şi la interfeţele Ethernet trebuie să fie de tipul DP-1 sau DP-2 certificate UL. (Notă- când se regăsesc într-un circuit non-LPS) Protecţie la supracurent: Un dispozitiv de protecţie la supracurent, înregistrat în circuitul de ramificare, uşor accesibil şi cu o putere nominală egală cu 20 A trebuie să fie integrat în cablajul clădirii.
	Nu utilizaţi comutatorul ca raft sau spaţiu de lucru Atenţie: Echipamentul montat pe o linie de alunecare/şină nu va fi utilizat ca raft sau spaţiu de lucru. Scopul şinelor nu este de a glisa unitatea de pe rack. Acestea sunt destinate instalării permanente numai la punctul final de oprire şi nu vor fi folosite pentru depanare şi întreţinere
	Directiva DEEE În conformitate cu Directiva DEEE 2002/96/CE, toate deşeurile de echipamente electrice şi electronice (EEE) trebuie colectate separat şi nu trebuie eliminate împreună cu deşeurile menajere obişnuite. Eliminaţi acest produs şi toate componentele sale în mod responsabil şi ecologic.
	Restricţii electrice pentru Norvegia This unit is intended for connection to a TN power system and an IT power system of Norway only.

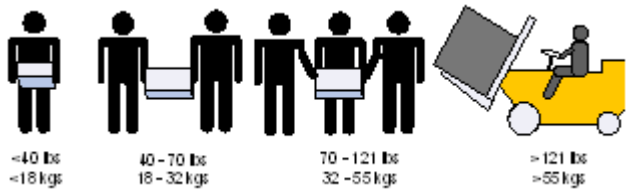
Sigurnosna upozorenja za instaliranje (Croatian)

	Upute za instaliranje Pažljivo pročitajte upute za instaliranje prije spajanja opreme na izvor električne energije.
	Tjelesne ozljede uslijed težine Kako biste sigurno podignuli ovaj proizvod, koristite dovoljan broj ljudi. 
	Teška oprema Ova oprema je vrlo teška i treba se premještati pomoću mehaničkog dizala kako bi se izbjegle ozljede.
	Rizik od strujnog udara! Rizik od strujnog udara! S uklonjenim modulom ventilatora, perima napajanja se može pristupiti u otvoru modula. NEMOJTE umetati alat ili dijelove tijela u otvor modula ventilatora.

	Pregrijavanje Ovom se opremom ne bi trebalo rukovati u područjima s temperaturom okoline koja premašuje najviše preporučene vrijednosti: 45°C (113°F). Osim toga, kako bi se osigurao odgovarajući protok zraka, omogućite najmanje 8 cm (3 inča) razmaka oko otvora ventilatora.
	Slaganje kućišta Kućište se ne bi trebalo slagati na drugu opremu. Ako kućište padne, može izazvati tjelesne ozljede i oštećenje opreme.
	Redundantno napajanje - Opasnost od električne energije Ovaj proizvod uključuje redundantno napajanje ili prazan prostor na njegovu mjestu. U slučaju praznog prostora za napajanje, nemojte rukovati proizvodom ako je poklopac uklonjen ili ako nije dobro pričvršćen.
	Dvopolni/neutralni osigurači Ovaj sustav raspolaže dvopolnim/neutralnim osiguračima. Uklonite sve kabele napajanja prije otvaranja poklopca proizvoda ili dodirivanja unutarnjih dijelova.
	Višestruki ulazi za napajanje Rizik od strujnog udara i opasnost od električne energije. PSU jedinice su neovisne. Odspojite sva napajanja kako biste osigurali stanje bez napajanja unutar platforme preklopnika.
	Tijekom udara munje - Opasnost od električne energije Tijekom djelovanja munja, nemojte raditi na opremi ili spajati ili odspajati kabele.
	Spajanje/Odspajanje bakrenog kabela Bakreni kabeli su teški i nesavitljivi i kao takvi se moraju pažljivo priključiti na ili isključiti iz konektora. Obratite se proizvođaču kabela za posebna upozorenja/upute.
	Montaža ormarića i servisiranje Kad se proizvod montira ili se servisira u ormariću, moraju se poduzeti posebne mjere opreza kako bi se osiguralo da sustav ostane stabilan. Općenito, trebali biste ispunjavati ormarić s opremom počevši od dna prema vrhu.
	Instaliranje opreme Ovu bi opremu trebalo instalirati, zamjenjivati i/ili servisirati samo obučeno i kvalificirano osoblje.
	Odlaganje opreme Odlaganje opreme trebalo bi se vršiti sukladno nacionalnim zakonima i propisima.
	Lokalni i nacionalni električni kodovi Ova oprema trebala bi se instalirati u skladu s lokalnim i nacionalnim električnim kodovima.

	Instalacijski kodovi Ovaj se uređaj mora instalirati sukladno najnovijoj verziji nacionalnih električnih kodova države. U Sjevernoj Americi oprema se mora instalirati sukladno važećim zahtjevima navedenim u US National Electrical Code i Canadian Electrical Code.
	Zamjena baterije Upozorenje: Bateriju zamijenite samo baterijom iz serije UL koja je certificirana za maksimalnu nepravilnu struju punjenja ne manju od 4 mA Postoji rizik od eksplozije ako se baterija zamijeni neodgovarajućom vrstom. Odložite prazne baterije sukladno uputama.
	UL CSA kabel napajanja Za sjevernoameričku mrežu odaberite kabel napajanja koji je na UL listi i sa CSA certifikatom, 3 - žilni, [16 AWG] (16 AWG) koji završava lijevanim utikačem nazivnog napona od 125 V, [13 A], minimalne duljine od 1,5 m [six feet] (šest stopa), ali ne dulji od 4,5 m. Za europsku mrežu odaberite kabel napajanja koji je međunarodno usklađen i označen “<HAR>”, 3 - žilni, s najmanje 1,0 mm2 žice, nazivnog napona od 300 V, s PVC izolacijom. Kabel mora imati lijevani utikač nazivnog napona od 250 V, nazivne struje od 10 A.
	Veliko curenje struje Upozorenje: Veliko curenje struje; Prije spajanja napajanja nužno je spojiti uzemljenje.
	Instalacijski kodovi Ovaj se uređaj mora instalirati sukladno najnovijoj verziji nacionalnih električnih kodova države. U Sjevernoj Americi oprema se mora instalirati sukladno važećim zahtjevima navedenim u US National Electrical Code i Canadian Electrical Code.
	Interkonekcija uređaja Kabeli za spajanje na jedinicu RS232 i Ethernet sučelja moraju biti s UL certifikatom vrste DP-1 ili DP-2. (Napomena - kad se nalazi u krugu bez LPS vodiča) Zaštita od strujnog preopterećenja: Uvijek dostupni odobreni zaštitni uređaji od strujnog preopterećenja nazivne struje od 20 A moraju se ugraditi u ožičenje zgrade.
	Nemojte koristiti preklopnik kao policu ili radnu površinu Pozor: Oprema montirana na klizače/vodilice ne bi se trebala koristiti kao polica ili radna površina. Vodilice nisu namijenjene za povlačenje uređaja iz ormarića. Služe samo za trajnu instalaciju na konačnom položaju, a ne za servisiranje i održavanje.
	WEEE direktiva Sukladno WEEE direktivi 2002/96/EZ, sav električni i elektronički otpad (EEE) trebao bi se prikupljati zasebno i ne bi se trebao odlagati kao običan kućanski otpad. Odlaganje ovog proizvoda i svih njegovih dijelova vršite na odgovoran i ekološki način
	Električna ograničenja države Norveške Ovaj je uređaj namijenjen samo za spajanje na električni sustav s TN uzemljenjem i na električni sustav s IT uzemljenjem države Norveške.

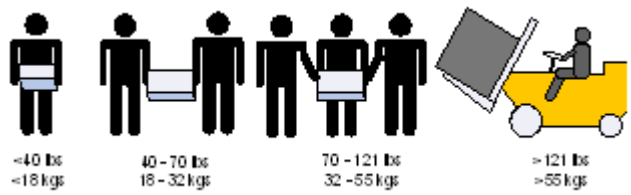
Avvertenze di sicurezza per l'installazione (Italian)

	Istruzioni di installazione Leggere tutte le istruzioni di installazione prima di collegare l'apparecchiatura all'alimentazione.
	Lesioni a causa del peso Usare un numero di persone sufficiente per sollevare in sicurezza questo prodotto. 
	Apparecchiatura pesante Questa apparecchiatura è molto pesante e va spostata mediante un sollevatore meccanico, per evitare lesioni.
	Rischio di scosse elettriche! Con il modulo ventola rimosso, i pin di alimentazione sono accessibili all'interno della cavità del modulo. NON inserire strumenti o parti del corpo nella cavità del modulo della ventola.
	Temperatura eccessiva Questa apparecchiatura non va utilizzata in un'area con una temperatura ambiente superiore a quella massima consigliata: 45 °C (113 °F). Inoltre, per assicurare un flusso d'aria adeguato, lasciare almeno 8 cm (3 pollici) di spazio attorno alle aperture di ventilazione.
	Impilare lo chassis Kućište se ne bi trebalo slagati na drugu opremu. Ako kućište padne, može izazvati tjelesne ozljede i oštećenje opreme.
	Collegamento di alimentazione ridondante - Pericoli elettrici Questo prodotto è dotato di un alimentatore ridondante o, qualora esso non sia installato, di uno spazio vuoto. Qualora l'alimentatore non sia installato, non utilizzare il prodotto con il coperchio rimosso o non fissato correttamente.
	Fusibili fase/neutro Questo sistema dispone di fusibili fase/neutro. Rimuovere tutti i cavi di alimentazione prima di aprire il coperchio di questo prodotto o di toccare parti interne.
	Prese di alimentazione multiple Rischio e pericolo di scosse elettriche. Gli alimentatori sono tutti indipendenti. Scollegare tutti gli alimentatori per assicurarsi che il commutatore non sia sotto tensione

	Durante i temporali, pericolo di scosse elettriche Durante i temporali, non effettuare interventi sull'apparecchiatura e non collegare o scollegare i cavi.
	Collegamento/scollegamento del cavo di rame I cavi di rame sono pesanti e non flessibili. Di conseguenza, vanno collegati o scollegati con cura dai connettori. Per avvertenze/istruzioni speciali, rivolgersi al produttore di cavi.
	Montaggio su rack e manutenzione Quando questo prodotto viene montato o sottoposto a manutenzione su un rack, è necessario adottare delle precauzioni speciali per assicurarsi che il sistema resti stabile. In generale, il rack va riempito con apparecchiature, procedendo dal basso verso l'alto.
	Installazione dell'apparecchiatura Questa apparecchiatura va installata, sostituita e/o sottoposta a manutenzione solo da personale addestrato e qualificato.
	Smaltimento dell'apparecchiatura Lo smaltimento di questa apparecchiatura va effettuato in conformità con tutte le leggi e le normative nazionali.
	Codici elettrici locali e nazionali Questa apparecchiatura va installata in conformità con le norme elettriche locali e nazionali.
	Codici di installazione Questo dispositivo va installato in conformità con l'ultima versione dei codici elettrici nazionali del Paese. Per il Nord America, l'apparecchiatura va installata in conformità con i requisiti applicabili del "codice elettrico nazionale USA" e del "codice elettrico canadese".
	Sostituzione della batteria Avvertenza: Sostituire solo con una batteria UL, certificata per accettare una corrente di ricarica anomala massima non inferiore a 4 mA. Se la batteria non viene sostituita con una batteria di tipo corretto, vi è il rischio di esplosione. Smaltire le batterie usate in conformità con le istruzioni.
	Cavo di alimentazione UL e munito di certificazione CSA Per una connessione di alimentazione nordamericana, selezionare un cavo di alimentazione di tipo UL e munito di certificazione CSA, a 3 conduttori, [16 AWG], terminato con una spina stampata con tensione nominale pari a 125 V, [13 A], di lunghezza minima pari a 1,5 m [sei piedi] ma non più lunga di 4,5 m. Per una connessione europea, selezionare un cavo di alimentazione armonizzato a livello internazionale e contrassegnato da "<HAR>", a 3 conduttori, minimo 1,0 mm2 fili, con guaina isolante in PVC. Il cavo deve disporre di una spina stampata di potenza nominale pari a 250 V, 10 A.

	Corrente di dispersione elevata Avvertenza: corrente di dispersione elevata; il collegamento a terra è essenziale prima di collegare l'alimentazione.
	Codici di installazionei Questo dispositivo va installato in conformità con l'ultima versione dei codici elettrici nazionali del Paese. Per il Nord America, l'apparecchiatura va installata in conformità con i requisiti applicabili del "codice elettrico nazionale USA" e del "codice elettrico canadese".
	Interconnessione delle unità I cavi per il collegamento all'unità RS232 e alle interfacce Ethernet devono disporre della certificazione UL ed essere del tipo DP-1 o DP-2. (Nota: in caso di installazione su un circuito la cui potenza non è limitata) Protezione contro le sovracorrenti: la cablatura dell'edificio deve integrare un dispositivo di protezione contro le sovracorrenti di potenza nominale pari a 20.
	Non utilizzare lo switch come scaffale o piano di lavorol Attenzione: un'apparecchiatura scorrevole o montata su binari non va utilizzata come scaffale o piano di lavoro. I binari non sono progettati per far scorrere e allontanare l'unità dal rack. Essi sono destinati all'installazione permanente solo nel luogo di lavoro e non vengono utilizzati per assistenza e manutenzione
	Direttiva RAEE Secondo la direttiva RAEE 2002/96/EC, tutti i rifiuti da apparecchiature elettriche ed elettroniche (RAEE) vanno raccolti separatamente e non smaltiti nei normali rifiuti domestici. Smaltire questo prodotto e tutte le sue parti in modo responsabile e rispettoso dell'ambiente
	Limitazioni relative all'alimentazione per la Norvegia Questa apparecchiatura è progettata esclusivamente per il collegamento a un sistema di alimentazione TN e a un sistema di alimentazione IT.

Montaj Güvenlik Uyarıları (Turkish)

	Montaj Talimatları Ekipmanı güç kaynağına bağlamadan önce tüm montaj talimatlarını okuyun.
	Ağırlık Nedeniyle Fiziksel Yaralanma Bu ürünü güvenli bir şekilde kaldırabilmek için yeterli sayıda insandan yardım alın. 

	Ağır Ekipman Bu ekipman çok ağırdır ve yaralanmaları önlemek için ekipmanın mekanik asansör kullanılarak taşınması gerekir.
	Elektrik Çarpması Riski! Fan modülüyle çıkarılan güç pimlerine modül boşluğu içinde erişilebilir. Fan modülü boşluğuna alet veya gövde parçaları yerleştirmeyin.
	Aşırı ısınma Bu ekipman, önerilen maksimum ortam sıcaklığını aşan alanlarda çalıştırılmamalıdır: 45 °C (113 °F). Ayrıca, düzgün hava akışı sağlamak için havalandırma deliklerinin etrafında en az 8 cm (3 inç) açıklık bırakılmalıdır.
	Şasi İstif Şasinin diğer herhangi bir ekipmanın üzerine istiflenmemesi gerekir. Şasi düşerse, fiziksel yaralanmalara ve ekipmanda hasara neden olabilir.
	Yedekli Güç Kaynaðý Baðlantýsý -Elektrik Çarpma Tehlikesi Bu ürün, yedekli güç kaynağı veya onun yerine boş elektrik kutusu içerir. Güç kaynağı için boş elektrik kutusu varsa, kutunun kapağı açıkken veya tam olarak kapatılmamışken ürünü çalıştırmayın.
	Çift Kutuplu/Nötr Kesmeli Sigorta Bu sistemde çift kutuplu/nötr kesmeli sigorta kullanılmaktadır. Ürünün kapağını açmadan veya herhangi bir iç parçaya dokunmadan önce bütün güç kablolarını çıkartın.
	Çoklu Güç Girişleri Elektrik çarpması riski ve enerji tehlikesi. Bütün PSU'lar (Güç Kaynağı Üniteleri) ayrıdır. Anahtar platformundaki gücü kapatmak için tüm güç kaynaklarının bağlantılarını kesin.
	Şimşek - Elektrik Çarpma Tehlikesi Gökyüzünde şimşek çaktığı zamanlarda, ekipman üzerinde çalışmayın veya kablo bağlamayın ya da kablo bağlantısı kesmeyin.
	İskele Montajı ve Bakım Bu ürün bir iskelede monte edildiyse veya bir iskele ile sunulduysa, sistemin sabit kalması için özel önlemler alınmalıdır. Genelde, ekipmanları iskeleye aşağıdan yukarı doğru doldurmanız gerekir.
	Ekipman Montajı Ekipmanın yalnızca eğitimli ve nitelikli personel tarafından monte edilmesi, değiştirilmesi ve/veya bakımının yapılması gerekir.
	Ekipmanın Atılması Bu ekipmanın imhasında tüm ulusal yasalara ve düzenlemelere uyulması gerekir.

⚠	Yerel ve Ulusal Elektrik Kodları Bu ekipmanın montajında yerel ve ulusal elektrik kodlarına uyulması gerekir.
!	Montaj Kodları Bu cihazın, ülke ulusal elektrik kodlarının son sürümüne göre monte edilmesi gerekir. Kuzey Amerika için, ekipmanın ABD Ulusal Elektrik Kodu ve Kanada Elektrik Kodu'nun uygulama koşullarına göre monte edilmesi gerekir.
⚠	Pilin Değiştirilmesi Uyarı: Yalnızca, maksimum düzgüsüz şarj akımı 4mA'dan az olmayan, UL Onaylı pillerle değiştirin. Yanlış pil türü ile değiştirildiğinde patlama tehlikesi bulunmaktadır. Kullanılmış pillerden talimatlara uygun bir şekilde kurtulun.
!	UL Kayıtlı ve CSA Onaylı Güç Kaynağı Kablosu Kuzey Amerika'da güç bağlantısı için, UL Kayıtlı ve CSA Onaylı bir güç kaynağı kablosu seçin, 3 - iletken, [16 AWG], 125 V değerinde, kalıplanmış bir fişle biten, [13 A], en az 1,5 m (altı fit) uzunluğunda fakat 4,5 m'den uzun olmayan bir kablo. Avrupa'da güç bağlantısı için, uluslararası uyumlu ve “<HAR>” işaretli, 3 - iletken, en az 1,0 mm2 tel, 300 V değerinde ve PVC yalıtımlı bir güç kaynağı kablosu seçin. Kablonun 250 V, 10 A değerinde bir kalıplanmış fişi olması gerekmektedir.
!	Yüksek Kaçak Akım Yüksek kaçak akım varsa; güç kaynağına bağlanmadan önce mutlaka topraklama bağlantısı yapılmalıdır.
⚠	Montaj Kodlarıi Bu cihazın, ülke ulusal elektrik kodlarının son sürümüne göre monte edilmesi gerekir. Kuzey Amerika için, ekipmanın ABD Ulusal Elektrik Kodu ve Kanada Elektrik Kodu'nun uygulama koşullarına göre monte edilmesi gerekir.
⚠	Ünitelerin Ara Bağlantısı RS232 ünitesini ve Ethernet Arabirimlerini bağlayacak olan kabloların UL onaylı DP-1 veya DP-2 tipi olması gerekir. (Not- LPS olmayan devreye aitse) Aşırı Akım Koruması: Kolayca erişilebilecek 20 V Kayıtlı devre parçası aşırı akım koruma cihazının bina elektrik şebekesinde kurulu olması gerekir.
!	Anahtarı Raf veya Çalışma Alanı olarak kullanmayınl Dikkat: Sürgülü/raylı ekipman raf veya çalışma alanı olarak kullanılamaz. Raylar üniteyi iskeleden uzağa kaydırmak için yapılmamıştır. Sadece, ekipmanın son olarak duracağı yerdeki kalıcı montaj içindir, servis veya bakım için kullanılamaz.
	WEEE Yönergesi WEEE Yönergesi 2002/96/EC uyarınca, tüm elektrikli ve elektronik ekipman atıkları (EEE) ayrı olarak toplanmalı ve evsel atıklarla birlikte çöpe atılmamalıdır. Bu ürün ve tüm parçaları çevreye dost ve sorumlu bir şekilde imha edilmelidir.

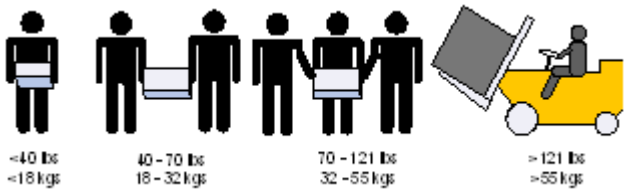
	Norveç Güç Kısıtlamaları Bu ünite, bir TN güç sistemine ve sadece Norveç'in IT güç sistemine bağlanmak içindir.

Japan VCCI Statement

この装置は、クラスA情□技□装置です。この装置を家庭□境で使用すると□波妨害を引き起こすことがあります。この□合には使用者が□切な□策を□ずるよう要求されることがあります。

VCCI-A

הוראות בטיחות בהתקנה (Hebrew)

	וראות התקנה קרא היטב את כל הוראות ההתקנה לפני חיבור המוצר לחשמל. תקן ישראליה
	יש להתקין את המוצר תוך הקפדה על תקנות החשמל הנהוגות בישראל, ולעשות שימוש ביחידת חלוקת כוח העומדת בתקן ישראל (ת"י) 32 חבלת גוף כתוצאה מנשיאת משקל יתר נדרשת נוכחותם של מספר מתקינים כדי להרים את המוצר בבטחה. 
	ציוד כבד המוצר כבד, ויש לשנעו באמצעות מעלית מכאנית כדי למנוע חבלה.
	סכנת התחשמלות! סכנת התחשמלות! בעת שיחידת המאוורר מפורקת, רכיבי חשמל נחשפים בחלל הריק. אין להחדיר כלים או איברי גוף לחלל המיועד להרכבת היחידה
	התחממות יתר אין להפעיל את המוצר באיזור שבו טמפרטורת החדר עולה על הטמפרטורה: 45°C (113°F). המקסימלית המומלצת בנוסף, כדי להבטיח כניסת אוויר תקינה, יש לוודא כי קיים שטח פנוי של 8 ס"מ (3 אינץ') לפחות סביב פתחי האוורור
	ערימת המערכת אין לערום את המערכת על גבי ציוד אחר. במקרה של נפילה, עשויים להגרם נזקי גוף ורכוש.

חיבור ספק כוח נוסף -סכנת התחשמלות המערכת מכילה ספק כוח נוסף לגיבוי, או, בחלק מהמקרים, חלל ריק המאפשר הרכבת ספק כזה. אין. לעשות שימוש במערכת כשהמכסה החוסם את החלל הריק אינו סגור כהלכה	
מספר שקעים חשמליים סכנת התחשמלות ואזהרת אנרגיה. כל אחד מספקי הכוח פועל באופן עצמאי. יש לנתק את כל ספקי הכוח, כדי להבטיח ניתוק מוחלט של. המערכת מזרם חשמלי	
בעת סופות ברקים - סכנת התחשמלות! בעת סופות ברקים, אין להפעיל את המערכת או לחבר/לנתק כבלים.	
חיבור או ניתוק של כבלי נחושת כבלי נחושת הם כבדים וקשיחים. לפיכך, יש לחברם ולנתקם מהמחברים בזהירות רבה. לאזהרות. נוספות, יש לעיין בעלון לצרכן מטעם יצרן הכבלים	
הרכבה על גבי מדף בארון כאשר מרכיבים מוצר זה על גבי מדף בארון, יש לנקוט באמצעי זהירות מיוחדים בכדי להבטיח שיוותר. יציב. ככלל, יש להתחיל למלא את הארון מהמדף התחתון, ולהתקדם כלפי מעלה	
התקנת המוצר כל התקנה, החלפה או טיפול במוצר זה חייבות להתבצע על ידי איש צוות מיומן ומוסמך בלבד.	
השלכה לאשפה בתום השימוש השלכת המוצר בתום השימוש חייבת להיעשות בהתאם לכל התקנות והחוקים המקומיים.	
תקנות חשמל מקומיות יש להתקין מערכת זו בהתאם לתקנות החשמל המקומיות.	
כבל אספקת חשמל על מנת לחבר את המוצר לחשמל בצפון אמריקה, יש לבחור כבל חשמלי ובעל הסמכת CSA, מוליך - 3 שבקצהו תקע מובנה.אורכו המינימלי 1.5 מטר (6 אינץ') ואורכו המקסימלי 125V, 13A.[16 AWG], 4.5 מטרלחיבור אירופאי, בחר כבל חשמלי בעל התאמה בינלאומית וסימוניוליך -3, גידים פנימיים באורך על הכבל לכלול 250V, Aעם עטיפת.10 PVC מבודדת.300V"<HAR>",מינימלי של 1.0 מילימטר^2 תקע מובנה	
תקנות התקנה יש להתקין מערכת זו על פי הגרסה האחרונה של תקנות החשמל המקומיות הנהוגות במדינה. עבור. צפון אמריקה, יש להתקין את המערכת בהתאם לתקנות החשמל הלאומיות המיושמות בארה"ב ובקנדה	
חיבור בין מערכות על כבלים לחיבור היחידה לממשקי RS232 ו-Ethernet להיות בעלי הסמכת.(כאשר הם מצויים במעגל חשמלי שאינו מקור כוח מוגבל) UL מסוג DP-2 או DP-1	
הגנה מפני מתח גבוה יש להקפיד על המצאותם בבניין ועל זמינותם של אמצעים להגנה מפני מתח גבוה בתקן 20A.	

	אין להשתמש במערכת כמדף או כשטח עבודה זהירות: אין להשתמש בציוד כמדף או כשטח עבודה. המסילות לא נועדו לשליפת המערכת מהארון, אלא. להתקנת המערכת במיקומה הקבוע והסופי בארון
	WEEE תקנת על פי תקנות WEEE 2002/96/EC, יש להשליך את כל פסולת הציוד החשמלי והאלקטרוני בנפרד מפסולת ביתית רגילה. בתום השימוש,. השלך לאשפה את המוצר הזה ואת כל חלקיו באופן אחראי וידידותי לסביבה
	מגבלות חשמליות בנורבגיה בנורבגיה בלבד, יחידה זו מיועדת לחיבור למערכת אספקת TN, ולמערכת אספקת חשמל מסוג IT. חשמל מסוג

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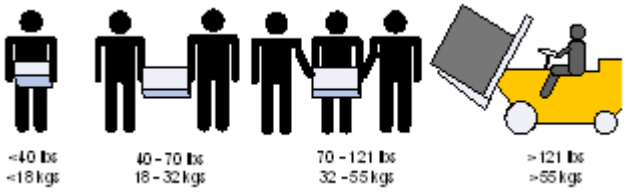
	□□□□□□ □□□□□□ □□□□□ □□□□□ □□□□□ □□□ □□□□□□□ □□□□ □□□□□ □□□ □□□□□□□ □□□ □□□□ □□ □□□□□□□ □□□□□ □□□□□□□□□ □□□□□□□□□ □□□□□ □□□□□□□□□ □□□□□□ □□□□□□  □□□□□□ □□□□□□ □□□□□ □□□□□ □□□□□□□□

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Appendix – Remote Access Controller

NVIDIA UFM Enterprise uses "*Integrated Dell Remote Access Controller 9*" for remote management. You can download Dell's user's guide here.

Document Revision History

Revision	Date	Description
1.1	Dec. 2025	Updated
1.0	Nov. 2025	First release

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