

SURGEX
SX-DSP-129
Switched IP
Controllable
Surge Protected
PDU



SURGEX SX-DSP-129 Switched IP Controllable Surge Protected PDU User Guide

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SURGEX SX-DSP-129 Switched IP Controllable Surge Protected PDU



Specifications

- Model Numbers: SX-DSP-129, SX-DSP-169, SX-DSP-109i, SX-DSP-169i
- Installation: Back of equipment rack
- Power Input: 3-wire grounding type power cord
- Network Connectivity: Ethernet and USB-Micro AB
- Default IP Address: DHCP assigned
- Login Credentials: Username – admin, Password – Adm1nXXXXXX (last 6 characters of MAC address)
- LED Indicators: Power indicators for outlets and units, Self-Test indicator
- Reset Buttons: Resettable fuse, Hardware Reset, Software Reset

Product Usage Instructions

1. Installation and Setup:

- **AC Power Output:** Plug the equipment cord into the suitable outlet as per manual instructions.
- **AC Power Input:** Connect power to the Defender Series+ using the provided power cord. Ensure correct polarity and ground presence.
- **Ethernet:** Use the RJ-45 connector for setup and debugging. The default IP Address is DHCP assigned.
- **USB-Micro AB:** Use the USB-Micro AB connector for diagnostics and troubleshooting IP connectivity issues.
- **LED Indicators:** Monitor power status using individual outlet LEDs and unit power LED.

Reset and Troubleshooting:

Buttons:

- **Resettable fuse:** Used to reset the Defender Series+ in case of a trip.
- **Hardware Reset:** Performs a hard reboot of the processor.
- **Software Reset:** Multi-functional control based on press length.

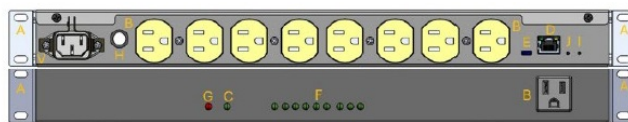
Rack Installation:

Install the Defender Series+ in the equipment rack using the supplied nuts, bolts, and washers as per local regulations.

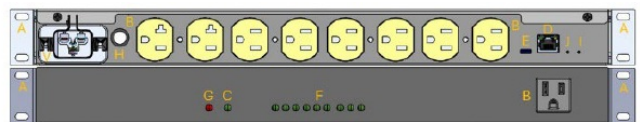
FAQs

- **Q: How do I reset the unit to factory defaults?**
 - **A:** Press and hold the Software Reset button for more than 10 seconds to reset to factory defaults.
- **Q: How do I find the IP address of the device?**
 - **A:** Use the discovery tool at ametekesp.com to find the IP address of the device.

Installation and Components



SX-DSP-129



SX-DSP-169



SX-DSP-109i



SX-DSP-169i

Defender Series+ is designed to be installed on the back of an equipment rack. The supplied nuts, bolts, and washers must be used to mount the Defender Series+ to the rack through the mounting holes (A) following the appropriate local regulations and requirements.

AC Power: Output

Plug the equipment cord (B) into the suitable outlet as needed. In the Manual, review the Introduction, Physical Interfaces, and column Outputs for the suitable plugs for each model's outlets.

AC Power: Input

Connect power to the Defender Series+ using an appropriately rated 3-wire grounding type power cord provided with the equipment in inlet (V). Do not plug the unit into a relocatable power tap. Check the outlet for correct polarity and the presence of a ground conductor before plugging the unit in.

Ethernet

The RJ-45 connector for Ethernet (D) is situated on the front panel and is only to be used for setup and debugging. The default IP Address is DHCP assigned. To find the IP address of the device, please use the discovery tool at ametekesp.com. The mDNS protocol is supported for dynamic device discovery.

The default login credentials are:

- Username: admin
- Password: Adm1nXXXXXX
- Where XXXXXX are the last six characters of the MAC address.

USB-Micro AB

The USB-Micro AB connector (E) is for diagnostics and troubleshooting IP connectivity issues. To use, please use the discovery tool at [ametekesp.com](https://169.254.10.100) or manually enter the static IP address <https://169.254.10.100> into a supported browser. The web server will always be accessible at <https://169.254.10.100> through this USB port. The web server on this interface cannot be changed and will always be unsecured HTTP at port 80.

LED Indicators:

The outlets have individual power indicator LEDs (F). These are paralleled in the control interface. In addition, the unit has an LED indicating power (G). Self-test is indicated by (C).

Buttons

Resettable fuse

The resettable fuse (H) is used to reset the Defender Series+ in case the fuse trips. This is a single push button located at the bottom left of the Ethernet RJ-45 jack. Also, there is a reset switch for hardware and another for software.

Hardware Reset

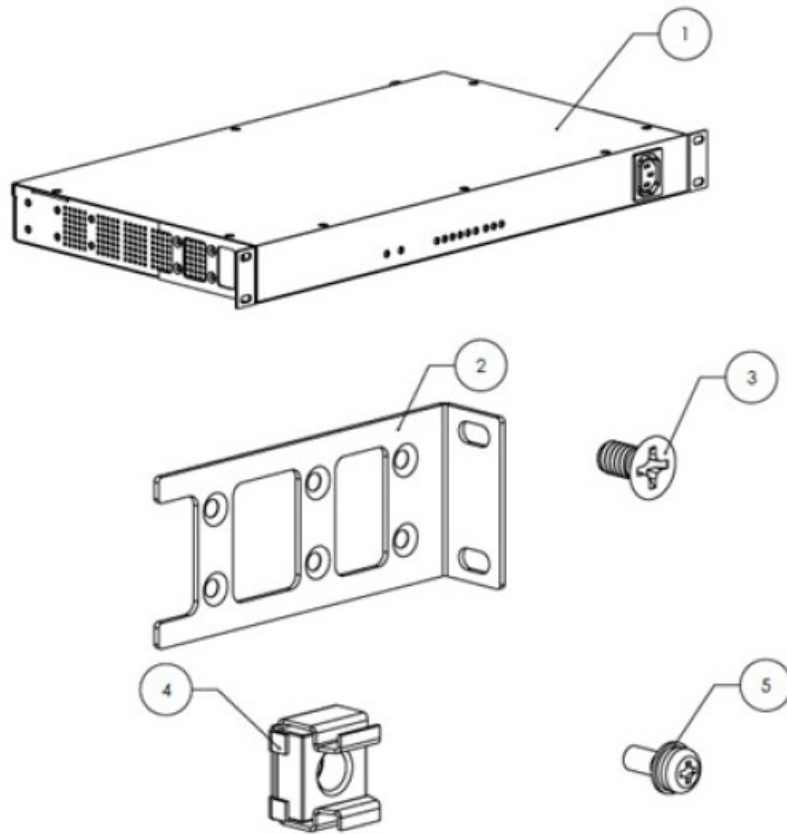
Hardware Reset (I): The Hardware Reset button performs a hard reboot of the processor. This hard reboot will immediately switch controlled outlets off, removing power to connected equipment on all outputs.

Software Reset

Software Reset (J): The Software Reset button is a multi-functional control depending on the length of the press. If the button is held for longer than 10 seconds, the unit resets itself to factory defaults, and all custom configurations are erased. If the button is held for less than 10 seconds, the unit will perform a software reset that will not reset any data, or power cycle the connected equipment.

Rack Installation

Defender Series+ is designed to be installed in the equipment rack. The supplied nuts, bolts, and washers must be used to mount the Defender Series+ to the rack through the mounting holes (A), (B), (C), or (D) following the appropriate local regulations and requirements.



Sl. No	Items	Qty
1	Defender Series Plus Unit	1
2	Ear Mount Bracket	2
3	Flat head Screws	8
4	PAN Head Screws	4
5	Cage nut	4

Safety

DANGER

HAZARD OF ELECTRICAL SHOCK, EXPLOSION, OR ARC FLASH

- This Unit is intended to be used indoors only. Do not install this Unit where excessive moisture or heat is present. Never install any wiring, equipment, or Units during a lightning storm. Plug this Unit into a three-wire, grounded power outlet only. The power outlet must be connected to the appropriate branch circuit/mains protection (fuse or circuit breaker). Connection to another type of power outlets may result in a shock hazard
- Install the unit in such a way that the Wall socket outlet should be readily accessible
- Use only the supplied brackets for mounting and use only the supplied hardware to attach the mounting brackets
- Do not use extension cords or adapters with this Unit.
- If a socket outlet is not accessible to the equipment, a socket outlet shall be installed. Do not work alone under

hazardous conditions.

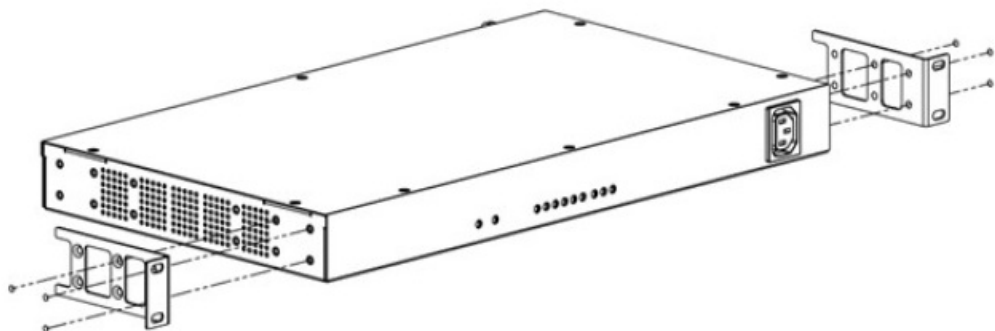
- Check that the power cord, plug, and socket are in good condition.
- Disconnect the Unit from the power outlet before you install or connect equipment to reduce the risk of electric shock when you cannot verify grounding. Reconnect the Surge Unit to the power outlet only after you make all connections.
- Unit installation instructions that require verification of the Protective earthing connection of the socket-outlet by a Skilled person.
- This equipment is not suitable for use in locations where children are likely to be present.
- Use a protective earth connector with equipment. This type of connector carries the leakage current from the load devices (computer equipment).
- Do not exceed a total leakage current of 3.5 .mA
- Do not handle any kind of metallic connector before the power has been removed
- Use one hand, whenever possible, to connect or disconnect signal cables to avoid a possible shock from touching two surfaces with different grounds.
- This unit does not have any user-serviceable parts. Repairs are to be performed only by factory-trained service personnel.
- The Unit is intended to be installed and operated by a skilled person nan as a controlled location with restricted access.
- The ambient operating temperature of a closed or multi-unit rack environment may be greater than the ambient temperature of the room. Ensure the ambient operating temperature of your rack environment does not exceed the rated ambient operating temperature for the device. Ensure the Unit is mounted securely and evenly.
- To avoid possible electrical shock and equipment damage, Use only the supplied hardware. Failure to follow these instructions will result in death or serious injury

Rack Mountina Ontione

- **Option- Mounting Ear Mount Bracket at Front**

- Secure Ear Mount Brackets to the Unit using eight Flat head screws

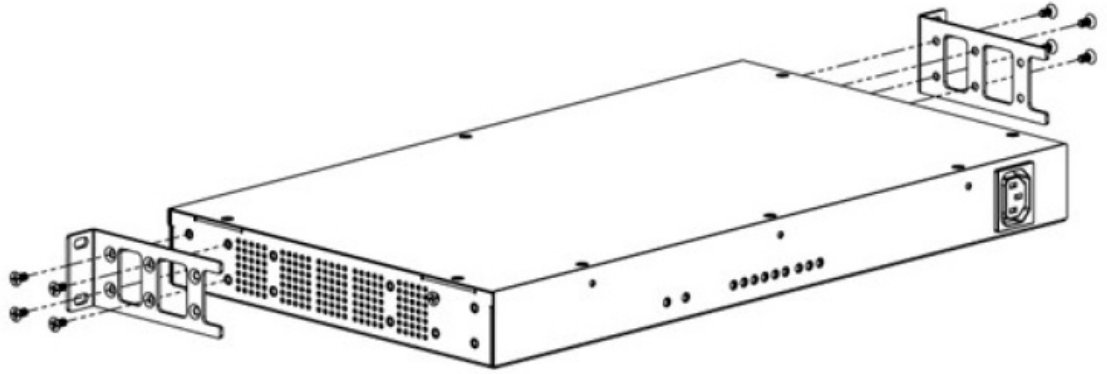
A



- **Option- Mounting Ear Mount Bracket at Rear**

- Secure Ear Mount Brackets to the Unit using eight Flat head screws

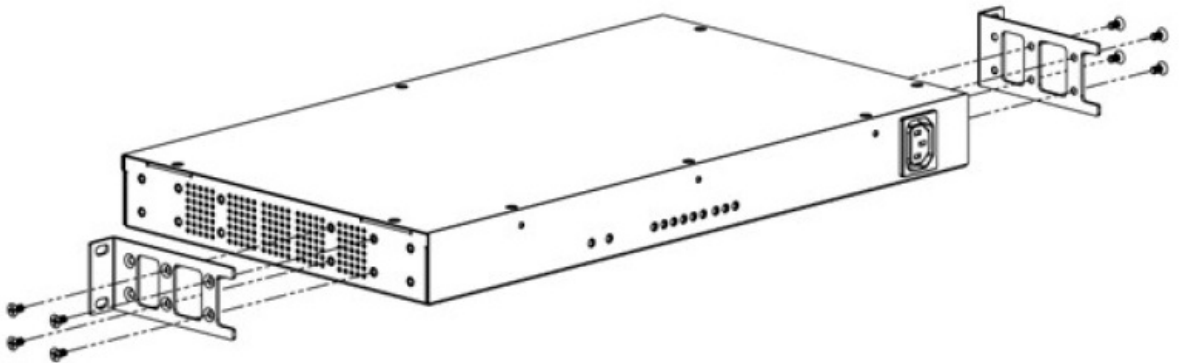
B



- **Option- Mounting Ear Mount Bracket at the Center**

- Secure Ear Mount Brackets to the Unit using eight Flat head screws

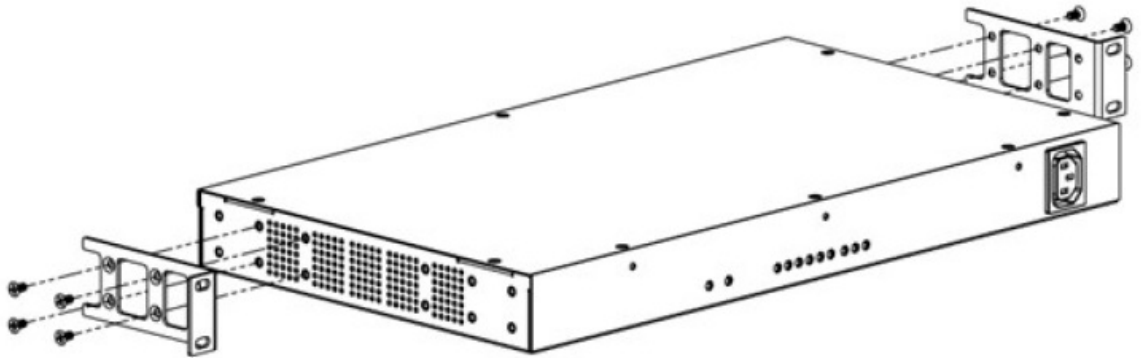
C



- **Option- Mounting Ear Mount Bracket at the Center**

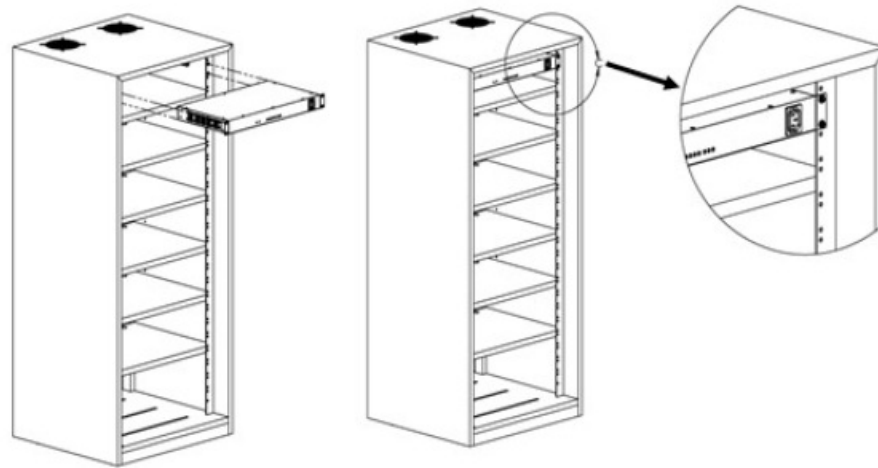
- Secure Ear Mount Brackets to the Unit using eight Flat head screws

D



- **Horizontal Mounting**

- Mount Unit on 19" rack holes provided in the channel and secure the Unit using four Pan head screws



Access to the Graphic User Interface via Computer

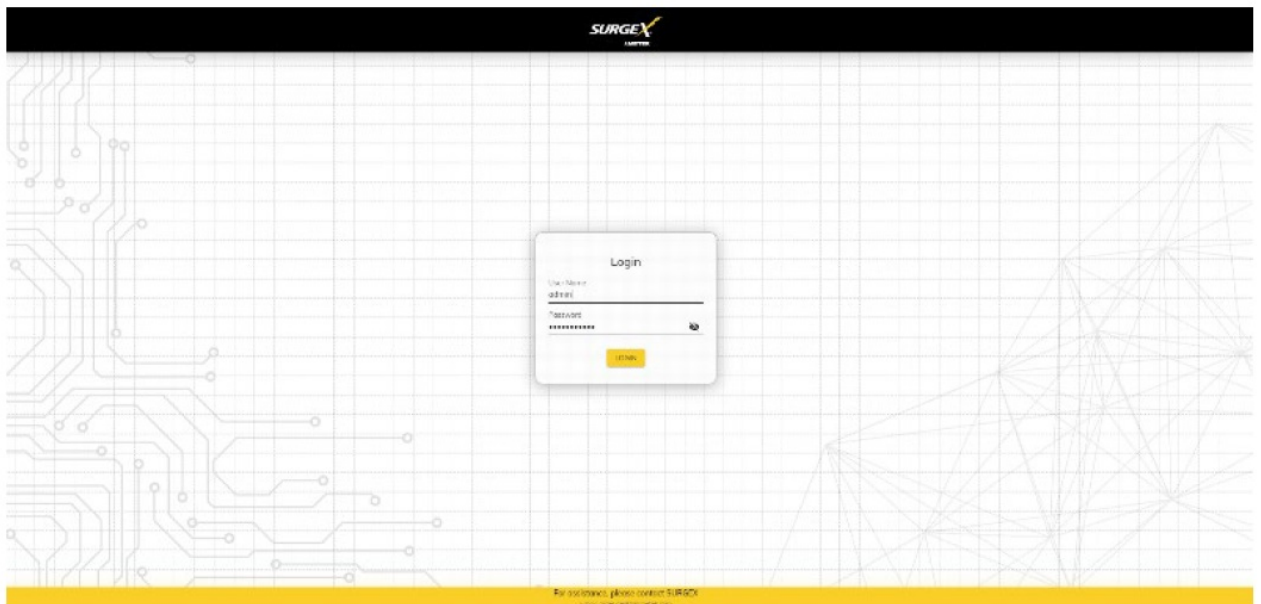
There are two ways to gain access to the internal Web Server where further setup and configuration is available.

RJ-45 Ethernet Port:

1. Connect the Defender Series+ to a standard Ethernet network.
2. Plug the device into an AC power source. By default, the device is set to DHCP and will pull an IP address once it is connected to an AC power source, assuming that your network is set to DHCP. If your network is set for Static IP addresses, you may want to initially access the unit via the USB-OTG Port, then go into the Network setting to change over to Static IP addressing.
3. To find the IP address of the device, you can download the free SurgeX IP address discovery tool at www.surgex.com. Alternatively, you can use a third-party IP address discovery tool, or look at the IP table built into the network's router.
4. Using any web browser, type in the unit's IP address to access the login page. The default login credentials are:
 - Username: admin
 - Password: Adm1nXXXXXX
 - Where XXXXXX are the last 6 characters of the unit's MAC address. Change your password after logging in for the first time to minimize security issues.

USB-OTG Port:


1. Connect the Defender Series+ to your computer using a USB-A to Micro-USB cable.
2. Plug the device into an AC power source.
3. Using any web browser, type in the default IP address <https://169.254.10.100> to access the login page. The default login credentials are:
 - Username: admin
 - Password: Adm1nXXXXXX
 - Where XXXXXX are the last 6 characters of the unit's MAC address. Change your password after logging in for the first time to minimize security issues.



CONTACT INFORMATION

- AMETEK SurgeX
- Technical Support: [800-645-9721](tel:800-645-9721)
- surgex.com

Documents / Resources

	<p>SURGEX SX-DSP-129 Switched IP Controllable Surge Protected PDU [pdf] User Guide SX-DSP-129, SX-DSP-169, SX-DSP-109i, SX-DSP-169i, SX-DSP-129 Switched IP Controllable Surge Protected PDU, SX-DSP-129, Switched IP Controllable Surge Protected PDU, Controllabl e Surge Protected PDU, Surge Protected PDU, Protected PDU</p>
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References

- [SURGEX - The Best Surge Protectors, Power Conditioners and Power Management Systems for AV equipment.](#)
- [SURGEX - The Best Surge Protectors, Power Conditioners and Power Management Systems for AV equipment.](#)
- [User Manual](#)

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