


EdgecorE PA-4125DX 4 Zone Matrix Mixing Amplifier



# EdgecorE PA-4125DX 4 Zone Matrix Mixing Amplifier User Guide

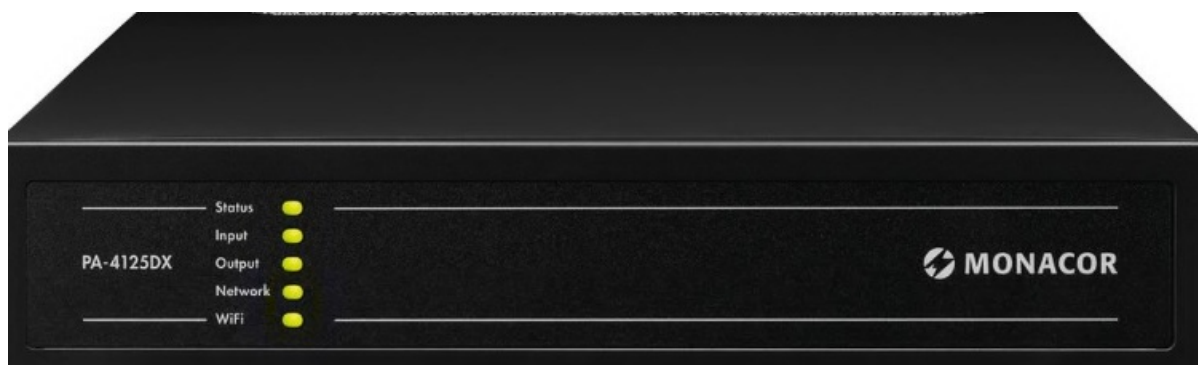
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**E d g e - c o r E**®

EdgecorE PA-4125DX 4 Zone Matrix Mixing Amplifier



**Specifications:**

- **Product Name:** Wedge100BF-65X
- **Port:** 65 Port 100G Ethernet Switch
- **Manufacturer:** Edge-Core
- **Website:** [www.edge-core.com](http://www.edge-core.com)

## Product Usage Instructions

### 1. Mount the Switch

1. Attach front- and rear-post brackets to the switch using the provided screws.
2. Secure the rear-post brackets at the mid-point on the sides of the switch.
3. Secure the switch in the rack using cage nuts and screws.
4. Lock the position of the rear-post bracket ears with the included screws.

### 2. Ground the Switch

1. Ensure the rack is properly grounded and compliant with ETSI ETS 300 253.
2. Verify a good electrical connection to the grounding point on the rack.

## Connect Power

### AC Power

1. Install two universal AC power supply units (PSUs) in the switch.
2. Connect an external AC power source to the PSUs.

### DC Power

1. Place a stripped wire end into a golden terminal pin.
2. Crimp the terminal pin firmly to the wire end.
3. Insert the crimped terminal pin and wire fully into its correct connector slot.
4. Secure the terminal pin in the connector slot using a white plastic locking Y pin.

### Verify Basic Switch Operation

1. Wire the DC PSU connector plug using the DC Connector Kit.
2. Check the SYS LED for normal operation (blinking blue).

## Connect Network Cables

1. Connect a Category 5e (or better) twisted-pair cable to the Management port.
2. For network cables to QSFP28 interfaces, use compatible fiber transceivers and connect fiber optic cabling to the transceiver ports.

## Frequently Asked Questions (FAQ):

- **Q: Where can I find compatible switch software for Wedge100BF-65X?**

A: Information about compatible switch software can be found on the manufacturer's website at [www.edge-core.com](http://www.edge-core.com).

- **Q: How do I know if the switch is operating normally?**

A: Verify basic switch operation by checking the SYS LED. When operating normally, the SYS LED should be blinking blue.

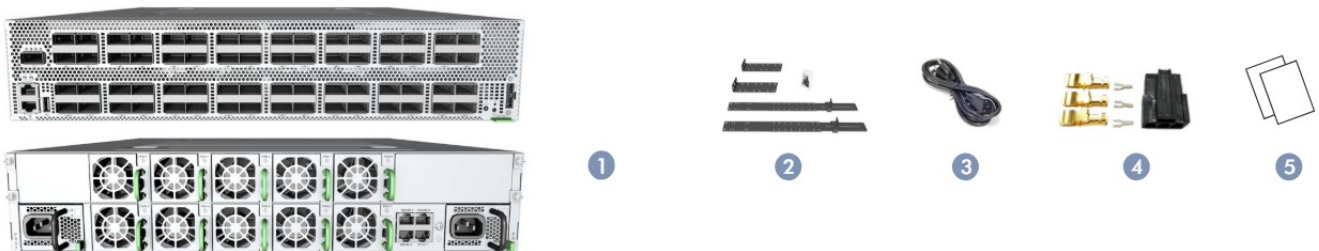
## Quick Start Guide

65 Port 100G Ethernet Switch

Wedge100BF-65X

[www.edge-core.com](http://www.edge-core.com)

## Package Contents



1. Wedge100BF-65X
2. Rack Mounting Kit—2 front-post brackets, 2 rear-post brackets, 20 screws, and 2 ear-locking screws
3. Power cord—either Japan, US, Continental Europe, UK or China
4. DC Connector Kit (included with DC PSUs only)—1 connector housing, 3 golden terminal pins, 3 plastic “Y” locking pins
5. Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

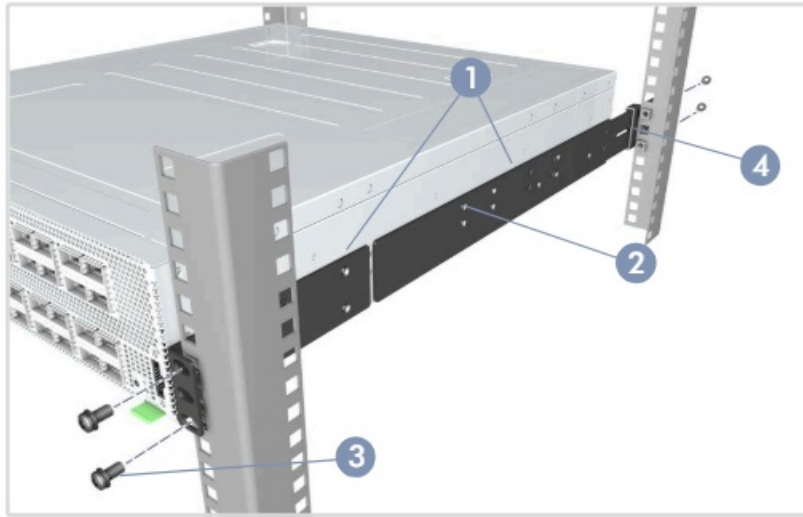
**Note:** For safety and regulatory information, refer to the Safety and Regulatory Information document included with the switch.

- **Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

**Note:** The switch has the Open Network Install Environment (ONIE) software installer pre-loaded on the switch, but no switch software image. Information about compatible switch software can be found at

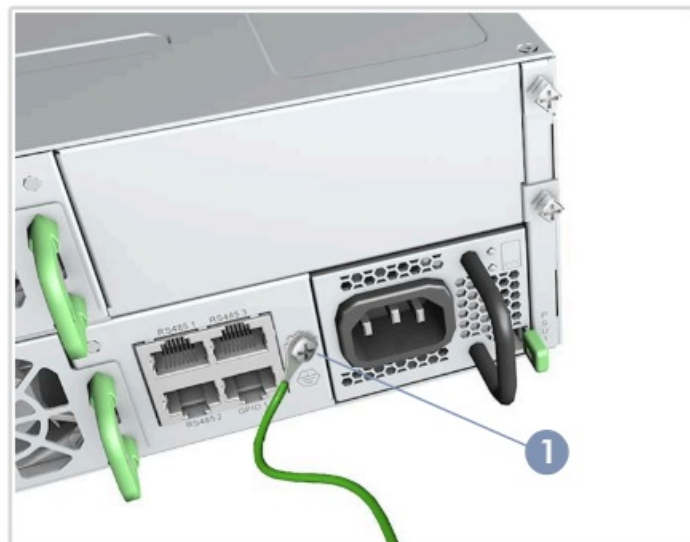
- [www.edge-core.com](http://www.edge-core.com).

## Mount the Switch



1. Attach each of the front- and rear-post brackets to the switch using four of the included bracket screws.
2. Use an additional two screws to secure each of the rear-post brackets at the mid-point on the sides of the switch.
3. Use the screws and cage nuts supplied with the rack to secure the switch in the rack.
4. Lock the position of the rear-post bracket ears using the included position-locking screws.  
You can also adjust the rear-post bracket ears to fit different rack depths from 56 cm to 85 cm.
5. DC Connector Kit (included with DC PSUs only)—1 connector housing, 3 golden terminal pins, 3 plastic “Y” locking pins
6. Documentation—Quick Start Guide (this document) and Safety and Regulatory Information

## Ground the Switch



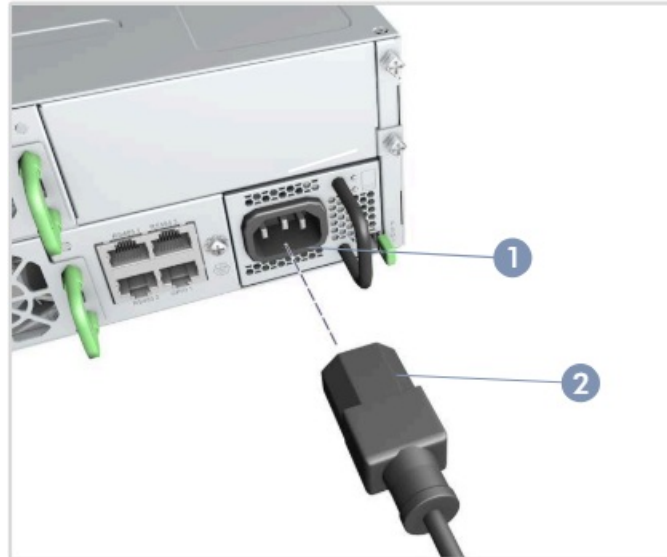
1. Ensure the rack on which the switch is to be mounted is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
2. Attach a lug (not provided) to a #14 AWG minimum grounding wire (not provided), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.
  - **Caution:** The earth connection must not be removed unless all supply connections have been

disconnected.

- **Caution:** The device must be installed in a restricted-access location. It should have a separate protective earthing terminal on the chassis that must be permanently connected to earth to adequately ground the chassis and protect the operator from electrical hazards.

## Connect Power

### AC Power



1. Install two universal AC power supply units (PSUs) in the switch.
2. Connect an external AC power source to the PSUs.

- **Caution:** Use the AC power cord supplied with the switch. For International use, you may need to change the AC line cord. You must use line cord sets that have been approved for the socket type in your country.



### DC Power



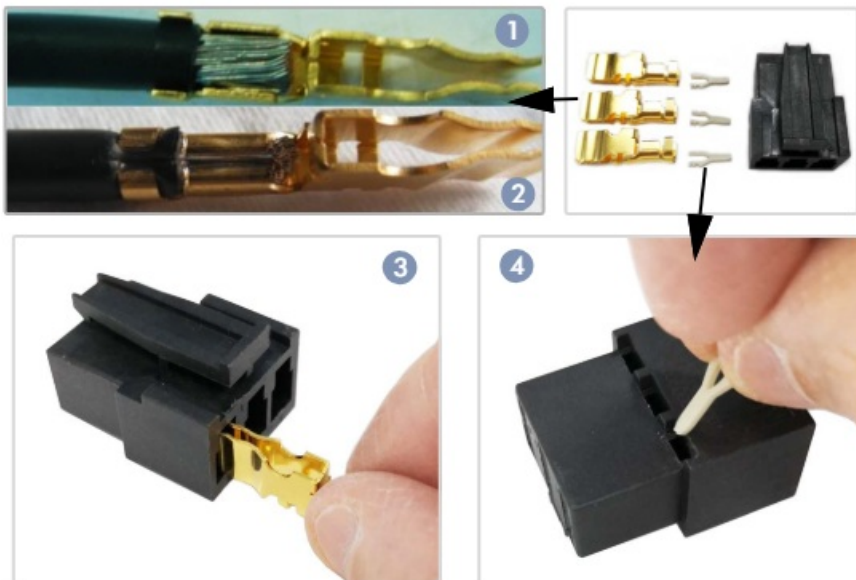
1. 48 – 60 VDC

2. DC Return
3. Ground

**Caution:** Use a UL/IEC/EN 60950-1 certified power supply to connect to a DC converter, and a #12 AWG wire (for 48 VDC to 60 VDC PSU) to connect to a DC PSU.

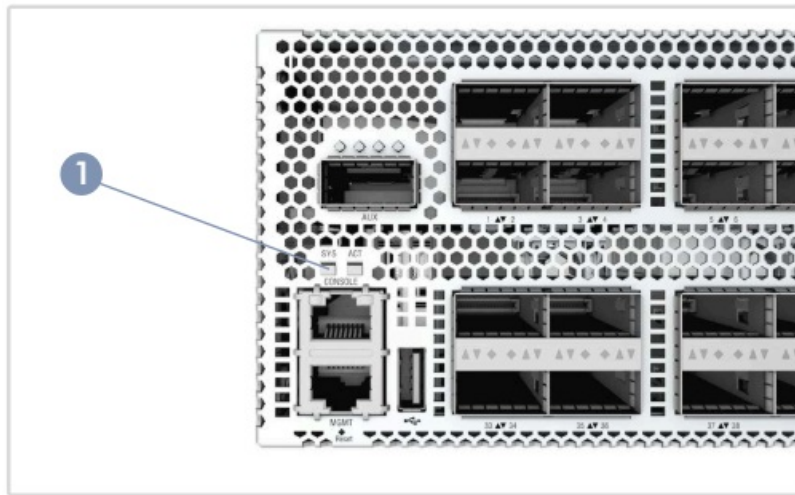
### DC Terminal Connector Wiring

- Use the contents of the DC Connector Kit (included with DC PSUs) to correctly wire the DC PSU connector plug.
- The DC PSU requires a Bel Power Solutions ZES.00046 Female Pin Connector Terminal. Each connecting wire must be properly crimped to each DC plug terminal pin (included in the DC Connector Kit).
- It is recommended to use a JonHon Optronic THB Terminal Crimping Machine with 12A-01 crimping mould and YJD-DP5 crimping tools. Prepare each wire by stripping the jacket back 8mm at the end before crimping it to a DC plug terminal pin.



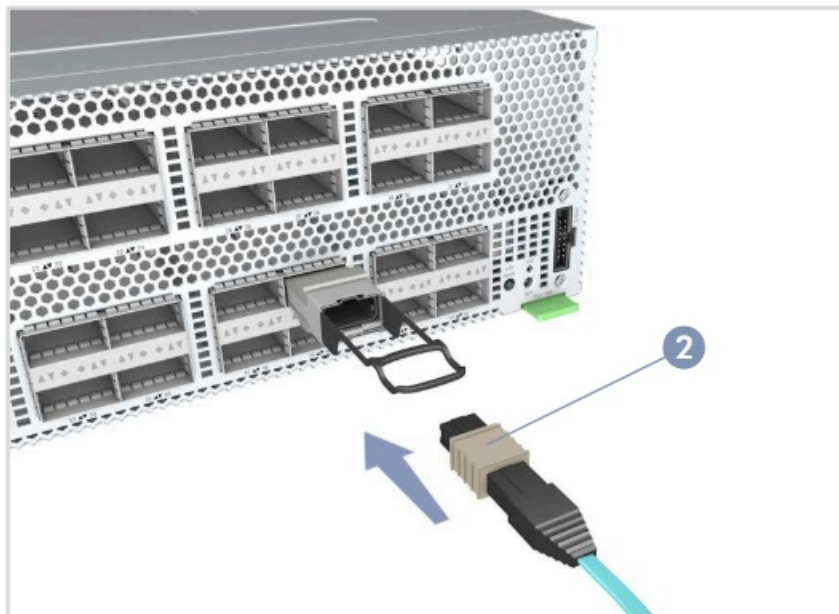
1. Place a stripped wire end into a golden terminal pin.
2. Crimp the terminal pin firmly to the wire end.
3. Insert the crimped terminal pin and wire fully into its correct connector slot (48 VDC, DC Return, or Ground).
4. Secure the terminal pin in the connector slot using one of the white plastic locking “Y” pins.

### Verify Basic Switch Operation



1. Verify basic switch operation by checking the SYS LED.
2. When operating normally, the SYS LED should be blinking blue.

## Connect Network Cables



1. Connect a 100-ohm Category 5e (or better) twisted-pair cable to the 1000BASE-T RJ-45 Management port.
2. **Connect network cables to QSFP28 interfaces:**
  1. If you are connecting fiber optic cables, install QSFP28 fiber transceivers and then connect fiber optic cabling to the transceiver ports.

## The following transceivers are supported:

1. CLR4 100G
2. LR4/LR4-lite 100G
3. CWDM4 100G
4. OpenOptic 100G
5. If you are using twinax copper cables (DAC cables) for port connections, connect the QSFP28 transceivers on the end of the DAC cables directly into the QSFP28 slots.

The QSFP28 ports can be configured as single-lane 100G mode, dual-lane 50G mode, single-lane 40G mode, four-lane 25G mode, or four-lane 10G mode.

**The following cable types are supported:**

1. **100 GbE to QSFP28 100 GbE cable:** 1 m, 2 m, and 3 m
2. **100 GbE to 2xQSFP28 50 GbE split cable (Y-cable):** 1 m, 2 m, and 3 m
3. **100 GbE to 4xSFP28 25 GbE fanout cable:** 1 m, 2 m, and 3 m

## **Hardware Specifications**

### **Switch Chassis**

- Size (WxDxH) 440 x 507 x 89 mm (17.32 x 19.97 x 3.50 inches)
- Weight 17 kg (37.48 lb)
- **Temperature Operating:** 5° C to 45° C (41° F to 113° F)
- **Storage:** -40° C to 70° C (-40° F to 158° F)
- **Humidity Operating:** 10% to 90% (non-condensing)
- Power Consumption 1100 Watts maximum

### **AC 1100W PSU**

- Power Rating 100–240 VAC, 50–60 Hz, 1100 W
- AC Input 100-240 VAC, 50-60Hz, 12–5A per PS

### **AC/DC 1100W PSU (Optional)**

- AC Input 100–127 VAC, 50–60 Hz, 11 A
- 200–240 VAC, 50–60 Hz, 6 A
- DC Input 200–300 VDC, 6 A
- **DC 1100W PSU (Optional)**
- DC Input 40–72 VDC, 30 A

### **Regulatory Compliances**

- Emissions EN 55032:2015+AC:2016, Class A
- EN 61000-3-2:2014, Class A
- EN 61000-3-3:2013
- FCC Class A
- VCCI Class A
- CISPR 32:2015
- RCM
- EAC
- KCC
- CCC GB/T9254-2008 (Class A)



- BSMI Class A, CNS 13438

## Immunity

- EN 55024:2010+A1:2015
- IEC 61000-4-2/3/4/5/6/8/11

## Safety

- UL (CSA 22.2 No 60950-1 & UL60950-1; CSA 22.2 No 62368-1 & UL62368-1)
- CB (IEC/EN60950-1 & IEC/EN 62368-1)
- CCC GB4943.1-2011
- BSMI, CNS 14336-1
- SII (Israel)
- **Taiwan RoHS**
  - CNS 15663

## Power and Battery Safety



- **Warning:** If your switch uses a lithium battery, do not attempt to replace the battery yourself. Return the switch to the manufacturer for battery replacement.



- If the switch contains lithium batteries that are encased in a sealed chassis, do not attempt to open the sealed chassis under any circumstances.

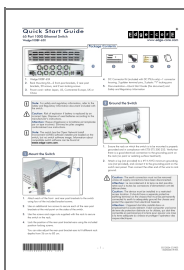


- Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.




- **Caution – Risk of Electrical Shock:** To disconnect power, remove all power cords from the unit.

## Documents / Resources



[EdgecorE PA-4125DX 4 Zone Matrix Mixing Amplifier](#) [pdf] User Guide  
PA-4125DX 4 Zone Matrix Mixing Amplifier, 4 Zone Matrix Mixing Amplifier, Matrix Mixing Amplifier, Mixing Amplifier, Amplifier

## References

-  [Edgecore Networks – Edgecore Networks, a leading provider of traditional and open network solutions, delivers wired and wireless networking products and solutions through channel partners and system integrators worldwide for data center, service provider,](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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