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Edge-corE ECS4120 Series 28-Port and 52-Port L2 Gigabit Ethernet Switches User Guide

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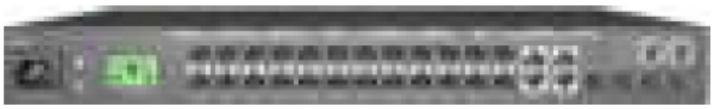
Edge-corE ECS4120 Series 28-Port and 52-Port L2 Gigabit Ethernet Switches

Unpack the Switch and Check Contents

ECS4120-28T

ECS4120-28Fv2



ECS4120-28Fv2-I

ECS4120-52T

28T/52T Mounting Kit — 4 brackets and 10 screws
28Fv2/28Fv2-I Mounting Kit — 2 brackets and 4 screws

Four adhesive foot pads

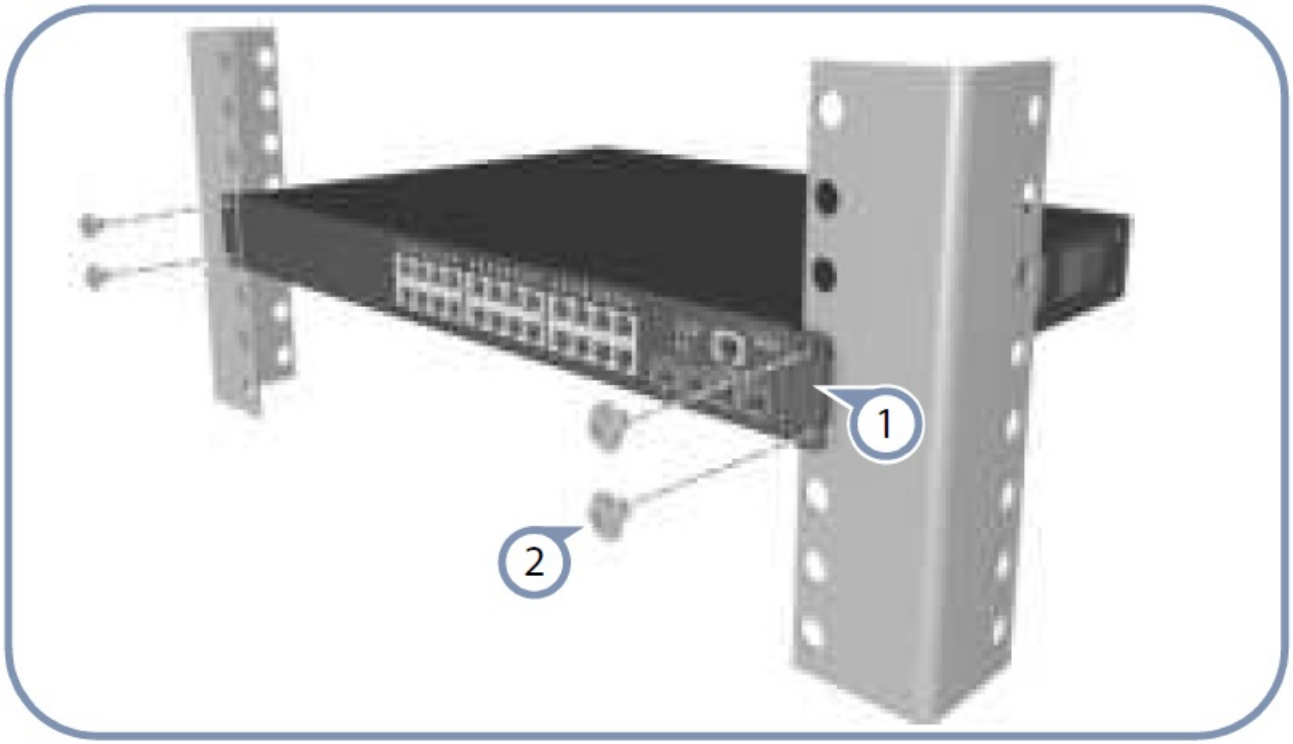
Power cord — US, Continental Europe, or UK

Console cable — RJ-45 to DB-9

Documentation—*Quick Start Guide* (this document) and *Safety and Regulatory Information*

Mount the Switch

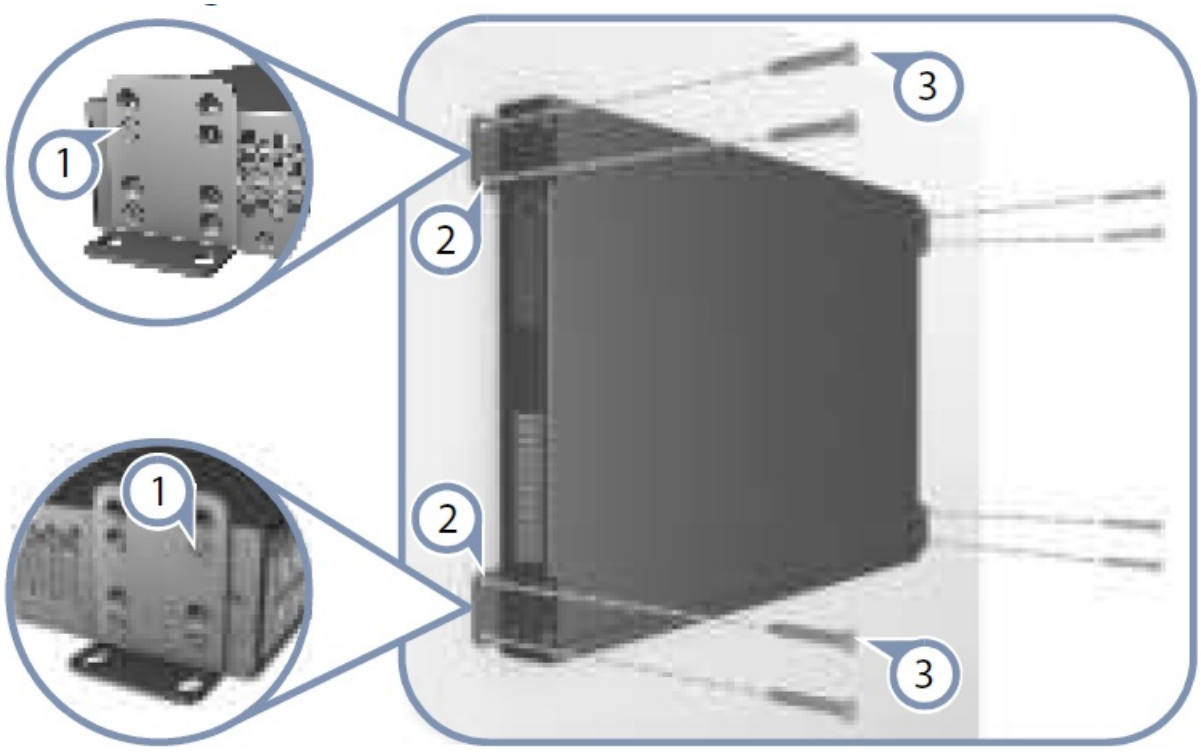
Mounting in a Rack



1. Attach the brackets to the front of the switch.
2. Use the screws and cage nuts supplied with the rack to secure the switch in the rack.

Caution: Installing the switch in a rack requires two people. One person should position the switch in the rack, while the other secures it using the rack screws.
Attention: L'installation de l'appareil dans un rack nécessite deux personnes. Une personne doit positionner l'appareil dans le rack, tandis que l'autre le fixe à l'aide des vis du rack.
Note: The switch can also be installed on a desktop or shelf using the included adhesive rubber foot pads.

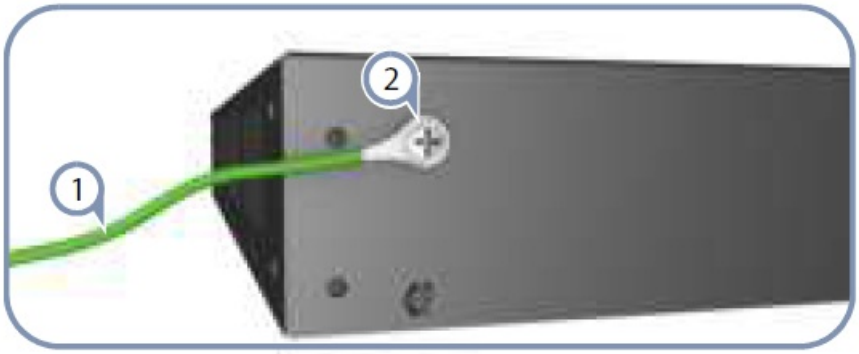
Mounting on a Wall



Caution: Wall mount the switch with the network ports facing down.
Caution: Wall mount the switch using four brackets (included) attached to the front and rear of the switch.
Attention: Montez l'interrupteur au mur à l'aide de quatre supports (inclus) fixés à l'avant et à l'arrière de l'interrupteur.

1. Rotate the brackets 90 degrees and attach them to the front and rear of the switch. Use three screws for the front brackets and two screws for the rear brackets.
2. In the required location, mark and drill eight holes in the wall for the wall anchors (not included).
   Note: For a wood wall, drilling holes and using wall anchors is not required.
3. Mount the switch on the wall and secure it in place using eight #12 wood screws (5/8-inch, not included).

Ground the Switch

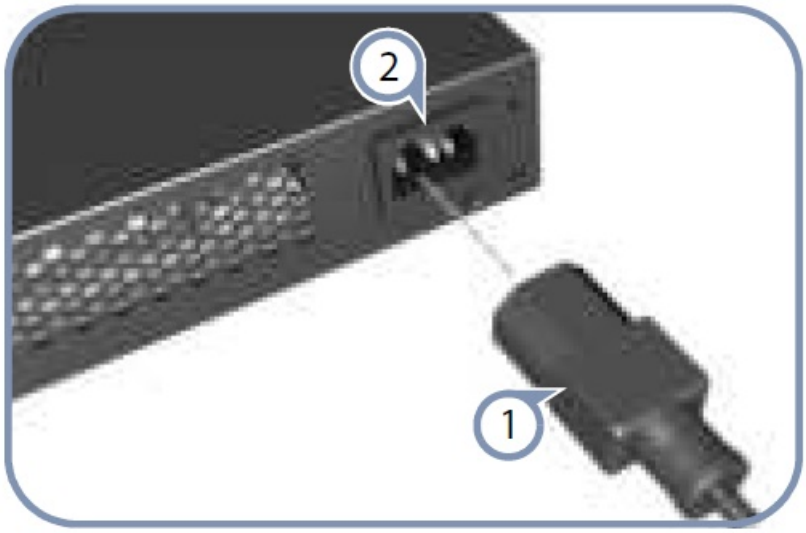


1. Ensure the rack on which the switch is to be mounted is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
2. Attach an 18 AWG minimum grounding wire (not included) to the grounding point on the switch rear panel, and then to rack ground.

Caution: The earth connection must not be removed unless all supply connections have been disconnected.

Connect Power

a. AC Power



1. Plug the power cord into a 100-240 VAC, 50-60 Hz AC power source.
2. Insert the other end of the power cord directly into the AC input socket on the back of the switch.

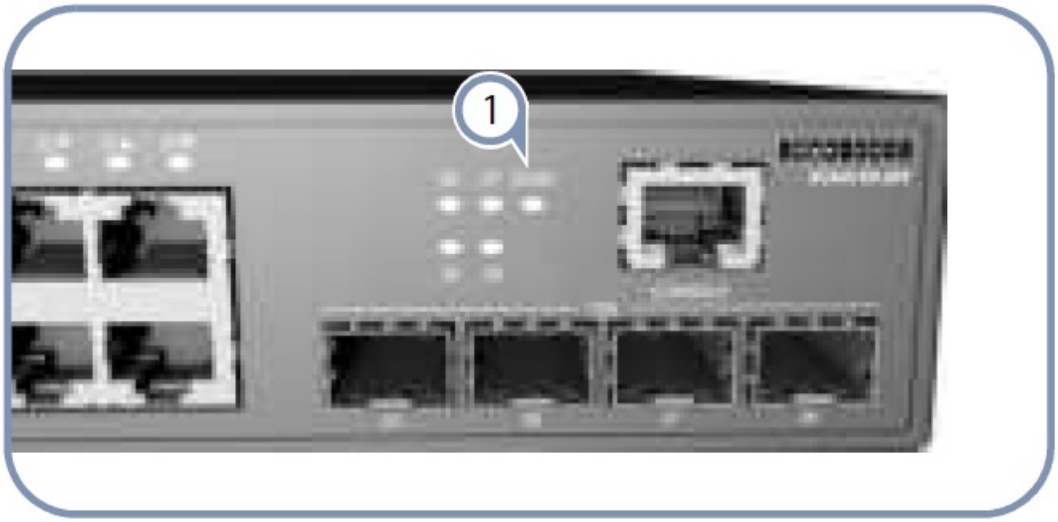
b. DC Power

Warning: Before wiring the DC plug or connecting power to the switch, ensure that power to the feed lines are turned off at the supply circuit breaker or disconnected from the power bus.

Warning: This unit is intended to be supplied by a IEC/UL listed DC power source suitable for whose input is rated DC -48 to -60V, 3.0 A

1. The ECS4120-28Fv2/ECS4120-28Fv2-I switch supports the option of connecting an external -48 to -60 VDC power source to its DC terminal block.
2. Connect the -48 VDC power feed wire to the DC plug “-” pin.
3. Connect the ground/return wire to the DC plug “+” pin.

Verify Switch Operation

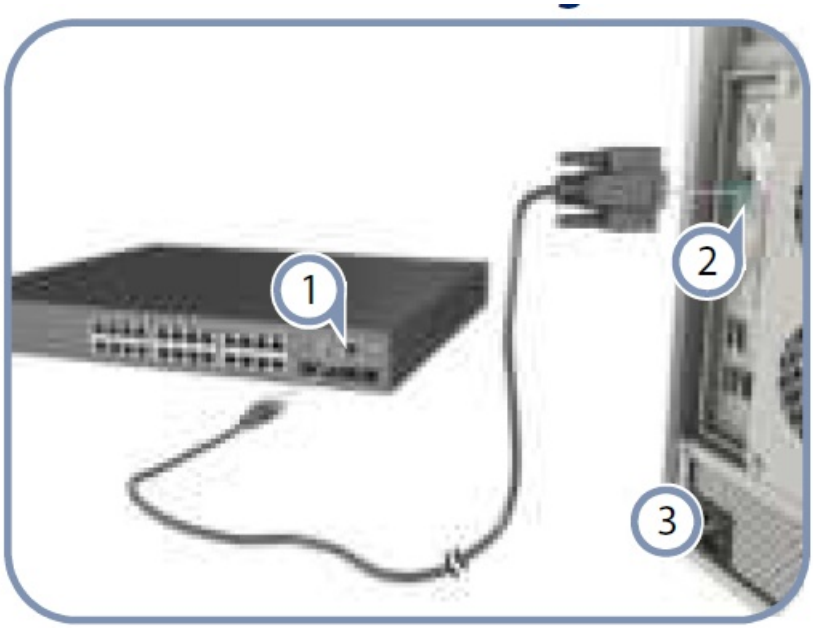


1. Verify basic switch operation by checking the system LEDs.

   When operating normally, the following LEDs should be on green:

- 28T/52T: DIAG
- 28Fv2/28Fv2-I: PWR and DIAG

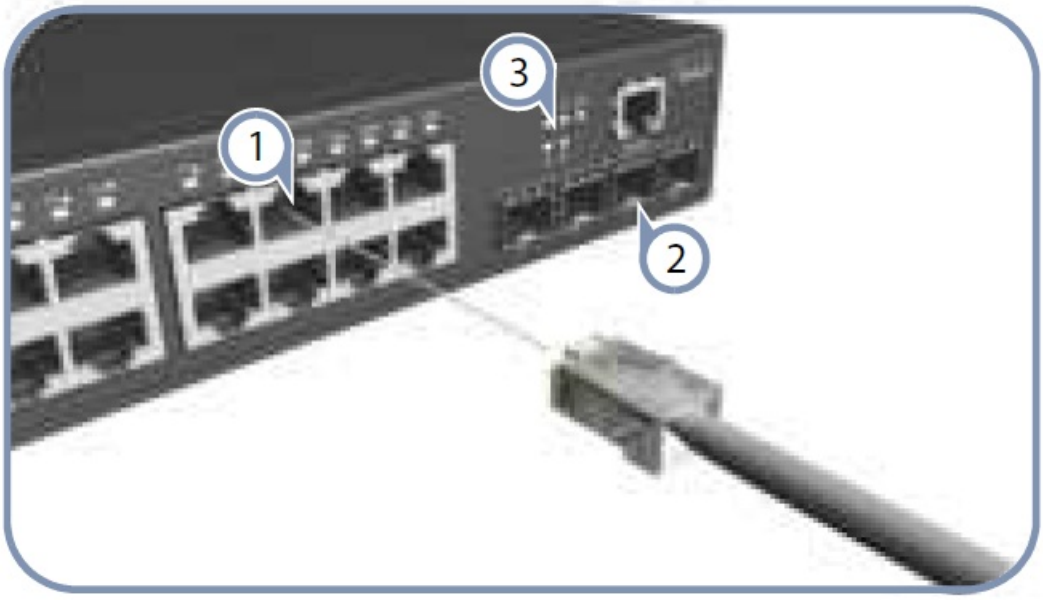
Perform Initial Configuration



1. Connect a PC to the switch console port using the included console cable.
2. Configure the PC's serial port: 115200 bps, 8 characters, no parity, one stop bit, 8 data bits, and no flow control.
3. Log in to the CLI using default settings: Username "admin" and password "admin."

Note: For further information on switch configuration, refer to the Web Management Guide and CLI Reference Guide.

Connect Network Cables



1. For RJ-45 ports, connect 100-ohm Category 5, 5e or better twisted-pair cable.

2. For the SFP/SFP+ slots, first install SFP/SFP+ transceivers and then connect fiber optic cabling to the transceiver ports.

   The following transceivers are supported:

   - 1000BASE-SX (ET4202-SX)
   - 1000BASE-LX (ET4202-LX)
   - 1000BASE-RJ45 (ET4202-RJ45)
   - 1000BASE-EX (ET4202-EX)
   - 1000BASE-ZX (ET4202-ZX)
   - 10GBASE-SR (ET5402-SR)
   - 10GBASE-LR (ET5402-LR)
   - 10GBASE-RJ45 (ET5402-RJ45)
   - 10GBASE-ER (ET5402-ER)
   - 10GBASE-ZR (ET5402-ZR)
3. As connections are made, check the port status LEDs to be sure the links are valid.
   - On/Blinking Green — Port has a valid link. Blinking indicates network activity.

Hardware Specifications

Switch Chassis
Size (W x D x H) 28T: 44.0 x 22.0 x 4.4 cm (17.32 x 8.66 x 1.73 in) 28Fv2/28Fv2-I: 44.0 x 22.0 x 4.4 cm (17.32 x 8.66 x 1.73 in) 52T: 44.0 x 28.0 x 4.4 cm (17.32 x 11.02 x 1.73 in)

Weight

- 28T: 2.47 kg (5.45 lb)
- 28Fv2/28Fv2-I: 2.82 kg (6.22 lb)
- 52T: 3.76 kg (8.29 lb)

Temperature

- Operating: 0° C to 50° C (32° F to 122° F)
- Operating: -10° C to 65° C (14° F to 149° F, ECS4120-28Fv2-I only)
- Storage: -40° C to 70° C (-40° F to 158° F)

Humidity

- Operating: 5% to 95% (non-condensing)

AC Input Power

- 28T: 100-240 VAC, 50/60 Hz, 0.37-0.22 A
- 28Fv2: 100-240 VAC, 50/60 Hz 1 A
- 28Fv2-I: 100-240 VAC, 50/60 Hz 1.2 A
- 52T: 100-240 VAC, 50/60 Hz, 0.75-0.42 A

DC Input Power

- 28Fv2/28Fv2-I: -48 – -60 VDC, 3.0 A
- Max. Power: 28T: 20 W
- Consumption: 28Fv2/28Fv2-I: 60 W 52T: 60 W

Regulatory Compliances

Emissions

- EN 55032:2015+A1:2020, Class A
- EN IEC 61000-3-2:2019+A1:2021, Class A
- EN 61000-3-3:2013+A1:2019
- FCC Class A
- VCCI Class A
- CE Mark
- CCC GB 9254-2008 Class A (ECS4120-28T/52T only)

Immunity

- EN 55035:2017+A11:2020
- IEC 61000-4-2/3/4/5/6/8/11

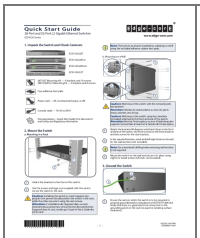
Safety

- UL/CUL (UL 60950-1, CSA 22.2 No 60950-1, UL 62368-1, CAN/CSA C22.2 No. 62368-1) CB (IEC 60950-1/EN 60950-1/IEC 62368-1/EN 62368-1)
- CCC GB 4943.1-2011 (ECS4120-28T/52T only) BSMI (CNS14336-1)

Taiwan RoHS

- CNS 15663 (ECS4120-28T only)

Documents / Resources

	Edge-corE ECS4120 Series 28-Port and 52-Port L2 Gigabit Ethernet Switches [pdf] User Guide ECS4120 Series 28-Port and 52-Port L2 Gigabit Ethernet Switches, ECS4120 Series, 28-Port and 52-Port L2 Gigabit Ethernet Switches, 52-Port L2 Gigabit Ethernet Switches, Gigabit Ethernet Switches, Ethernet Switches, Switches

References

- Edgecore Networks

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