
Safety and Regulatory Information

L2 Gigabit Ethernet Switch

ECS4510-12PD

This document provides information on switch safety, regulatory statements and compliances.

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Compliances and Safety Statements

FCC Class A This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

You may use unshielded twisted-pair (UTP) for RJ-45 connections - Category 3 or better for 10 Mbps connections, Category 5 or better for 100 Mbps connections, Category 5, 5e, or 6 for 1000 Mbps connections. For fiber optic connections, you may use 50/125 or 62.5/125 micron multimode fiber or 9/125 micron single-mode fiber.

CE Mark CE Mark Declaration of Conformance for EMI and Safety (EEC)

This information technology equipment complies with the requirements of the Council Directive 2004/108/EC on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility and 2006/95/EC for electrical equipment used within certain voltage limits and the Amendment Directive 2006/95/EC. For the evaluation of the compliance with these Directives, the following standards were applied:

- RFI Emission:
- ◆ Limit class A according to EN 55022: 2006 (EMC)
 - ◆ Limit class A for harmonic current emission according to EN 61000-3-2/2000+A2:2005
 - ◆ Limitation of voltage fluctuation and flicker in low-voltage supply system according to EN 61000-3-3/1995+A1:2001+A2:2005
- Immunity:
- ◆ Product family standard according to EN 55024:2010
 - ◆ Electrostatic Discharge according to IEC 61000-4-2:2008
 - ◆ Radio-frequency electromagnetic field according to IEC 61000-4-3:2010
 - ◆ Electrical fast transient/burst according to IEC 61000-4-4:2011
 - ◆ Surge immunity test according to IEC 61000-4-5:2005
 - ◆ Immunity to conducted disturbances, Induced by radio-frequency fields: IEC 61000-4-6:2008
 - ◆ Power frequency magnetic field immunity test according to IEC 61000-4-8:2009
 - ◆ Voltage dips, short interruptions and voltage variations immunity test according to IEC 61000-4-11:2004
- LVD: EN 60950-1:2006+A11:2009; 2009+A1: 2010+A12: 2011



Declaration of Conformity (DoC) can be obtained from www.edge-core.com -> support -> declarations & certifications

Safety Compliance Warning: Fiber Optic Port Safety:



When using a fiber optic port, never look at the transmit laser while it is powered on. Also, never look directly at the fiber TX port and fiber cable ends when they are powered on.

Avertissement: Ports pour fibres optiques - sécurité sur le plan optique:



Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port TX (Transmission) à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

Warnhinweis: Faseroptikanschlüsse - Optische Sicherheit:



Niemals ein Übertragungslaser betrachten, während dieses eingeschaltet ist. Niemals direkt auf den Faser-TX-Anschluß und auf die Faserkabelenden schauen, während diese eingeschaltet sind.

Warnings and Cautionary Messages



Warning: This product does not contain any serviceable user parts.

Warning: Installation and removal of the unit must be carried out by qualified personnel only.

Warning: This switch uses lasers to transmit signals over fiber optic cable. The lasers are compliant with the requirements of a Class 1 Laser Product and are inherently eye safe in normal operation. However, you should never look directly at a transmit port when it is powered on.

Warning: When selecting a fiber SFP device, considering safety, please make sure that it can function at a temperature that is not less than the recommended maximum operational temperature of the product. You must also use an approved Laser Class 1 SFP transceiver.



Caution: Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.

Caution: Do not plug a phone jack connector in the RJ-45 port. This may damage this device.

Caution: Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.
