Edge-core AS4630-54PE 48-Port Ethernet Switch Instructions

www.edge-core.com

Safety & Regulatory Information
48-Port Ethernet Switch
AS4630-54PE

Contents

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 2014/30/EU on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility and 2014/35/EU for electrical equipment used within certain voltage limits. For the evaluation of the compliance with these Directives, the following standards were applied:
RFI Emission:

- Limit according to EN 55032:2015+AC:2016, Class A
- Limit for harmonic current emission according to EN 61000-3-2:2014, Class A
- Limitation of voltage fluctuation and flicker in low-voltage supply systems according to EN 61000-3-3:2013

Immunity:

- Product family standard according to EN 55024:2010+ A1:2015 and EN 55035:2017
- Electrostatic Discharge according to IEC 61000-4-2:2008 ED. 2.0
- Radio-frequency electromagnetic field according to IEC 61000-4-3:2010 ED. 3.2
- Electrical fast transient/burst according to IEC 61000-44:2012 ED. 3.0
- Surge immunity test according to IEC 61000-4-5:2014 ED. 3.0
- Immunity to conducted disturbances, induced by radiofrequency fields: IEC 61000-4-6:2013 ED. 4.0
- Power frequency magnetic field immunity test according to IEC 61000-4-8:2009 ED. 2.0
- Voltage dips, short interruptions, and voltage variations immunity test according to IEC 61000-4-11:2004 ED. 2.0

LVD:

- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
- EN 62368-1:2014/A11:2017

The Declaration of Conformity (DoC) can be obtained from **www.edge-core.com->support->download**.

Japan – VCCI Class A

Laser Safety

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.

PSE Alarm

Power and Battery Safety

	**Warning:** If your device uses a lithium battery, do not attempt to replace the battery yourself. Return t he device to the manufacturer for battery replacement.
	If the device contains lithium batteries that are encased in a sealed chassis, do not attempt to open th e 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.

Power Cord Safety

Please read the following safety information carefully before installing the switch:
Warning: Installation and removal of the unit must be carried out by qualified personnel only.

- The unit must be connected to an earthed (grounded) outlet to comply with international safety standards.
- Do not connect the unit to an A.C. outlet (power supply) without an earth (ground) connection.
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN 60320/IEC 320 appliance inlet.
- The socket-outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.
- This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 60950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.

France and Peru only
This unit cannot be powered from IT† supplies. If your supplies are of IT type, this unit must be powered by 230 V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labeled Neutral, connected directly to earth (ground).

Important! Before making connections, make sure you have the correct cord set. Check it (read the label on the cable) against the following:

Power Cord Set	
The U.S.A. and Canada	The cord set must be UL-approved and CSA certified. The minimum specifications for the flexible cord are: – No. 14 AWG – not longer than 4.5 meters. type SJE, SJT, or ST. – No. 14 AWG – not longer than 2.4 meters, type SVT orSPT-2. – 3-conductor. The cord set must have a rated current capacity of at least 15 A. The attachment plug must be an earth-grounding type with NEMA 5-15P (15 A, 125 V) confi guration.
Denmark	The supply plug must comply with Section 107-2-D1, Standard DK2-1a, or DK2-5a.
Switzerland	The supply plug must comply with SEV/ASE 1011.
The U.K.	The supply plug must comply with BS1363 (3-pin 13 A) and be fitted with a 5 A fuse which c omplies with BS1362. The main cord must comply with IEC 60227 (designation 60227 IEC 52).
Europe	The supply plug must comply with CEE7/7 (“SCHUKO”). The main cord must comply with IEC 60227 (designation 60227 IEC 52). IEC-320 receptacle.

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:** When connecting this device to a power outlet, connect the field ground lead on the tri-pole power plug to a valid earth ground line to prevent electrical hazards. **Warning:** This switch uses lasers to transmit signals over fiber optic cable. The lasers are co mpliant 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 powere d on. **Warning:** When selecting a fiber SFP/SFP+/QSFP+ device, considering safety, please make sure that it can function at a temperature that is not less than the recommended maximum op erating temperature of the product. You must also use an approved Laser Class 1 SFP/SFP+/ QSFP+ transceiver.
	**Caution:** Wear an anti-static wrist strap or take other suitable measures to prevent electrostati c 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. **Caution:** The switch includes a plug-in power supply (PSU) and fan tray modules that are inst alled into its chassis. All installed modules must have a matching airflow direction. That is, if th e installed power modules have a front-to-back (F2B) airflow direction, all the installed fan tray modules must also have an F2B airflow direction.

Equipment Name			Type Designation (Type)			
Unit	Restricted substances and their chemical symbols					
	(Pb)	(Hg)	(Cd)	(Cr+6)	PBB)	(PBDE)
PCBA	–	○	○	○	○	○
Fan	–	○	○	○	○	○
Heatsink	○	○	○	○	○	○
Chassis	–	○	○	○	○	○
Cable Assembly	○	○	○	○	○	○
Power cord	○	○	○	○	○	○
Power Supply	–	○	○	○	○	○

Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicates that the percentage content of the restricted substance exceeds the reference percentage value of the present condition.

Note 2: ” ○ ” indicates that the percentage content of the restricted substance does not exceed the percentage of the reference value of presence.

Note 3: The ” ○ ” indicates that the restricted substance corresponds to the exemption.

Products contain hazardous substances exposing table

Component Name	Hazardous Substances Project					
	(Pb)	(Cd)	(Hg)	(Cr^{6+})	(PBB)	(PBDE)
SSD Module	×	○	○	○	○	○
SDRAM Module	×	○	○	○	○	○
Diode	×	○	○	○	○	○
Mosfet	×	○	○	○	○	○
Crystal	×	○	○	○	○	○

Regulator	×	○	○	○	○	○
Fan	×	○	○	○	○	○
Screw	×	○	○	○	○	○
Spacer	×	○	○	○	○	○
Stand	×	○	○	○	○	○
Power supply	×	○	○	○	○	○
Resistor	×	○	○	○	○	○

SJ/T: 11364-2014

○: GB/T 26572-2011

○: Indicates the toxic or hazardous substance content of the part (at the homogenous material level) is lower than the threshold defined by Requirements for Concentration Limits for Toxic or hazardous Substances in Electronic Information Products (GB/T 26572-2011) issued by the Chinese Ministry of Information Industry (“Not Contained” toxic or hazardous substances).

×: GB/T 26572-2011

×: Indicates the toxic or hazardous substance content of the part (at the homogenous material level) is over the threshold defined by the standard of GB/T 26572-2011 (“Contained” toxic or hazardous substances). Suppliers can explain the technical cause of “X” according to the actual situation.

The Environment- Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here unless otherwise marked. Certain parts may have a different EFUP (for example, battery modules) and so are marked to reflect such. The Environment- Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.

Warranty Information and Technical Support

To register your Edgecore product and review a detailed warranty statement, refer to the Edgecore Networks website at www.edge-core.com.

Documents / Resources

	Edge-core AS4630-54PE 48-Port Ethernet Switch [pdf] Instructions AS4630-54PE, 48-Port Ethernet Switch