

SPECIFICATION		Specification No.	S-211400C11~13		
		Drawing No.	S-211400C11	Revision	Page
Product Name	GUARDIAN NET LAN-CAT6A-IS	Enactment Date	04.Apr.2023	Revision Date	
		Drawing Section	Product Development Department		

1. General

This products protect a personal computer or other equipment that is connected to a LAN against abnormal voltages resulting from a lightning surge.

This products support 10GBase-T, 5GBase-T, 2.5GBase-T, 1000Base-T, 100Base-TX, 10Base-T, and this products are adopted the insulation type for no grounding.

This products can be connected to RJ45, and the can be easily install..

2. Environmental characteristic

- 2.1 Location : Indoor
 2.2 Rated and storage temperature : -40°C ~ +85°C
 2.3 Rated and storage humidity : 90% or less (no condensation)

3. Structure

3.1 Appearance, Structure and Dimension

Appearance, Structure and Dimensions are figured by S-211400A11.

3.2 Marking

The following display is marked on the product.

- (1) Product name
- (2) Manufacturer name
- (3) Production number
- (4) Correspondence line

4. Applicable Standards

Applicable Standards of this product is Table.1

Table. 1 Applicable Standards

Item	Standard name
Certified safety standards	UL62368-1 (File No.E532596)
Surge protection performance	IEC 61643-351:2016 / JIS C 5381-351:2019
	IEC 61643-352:2018 / JIS C 5381-352:2020

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5. Electrical Characteristics

The Electrical Characteristics of this product is Table.2

Table. 2 Electrical Characteristics

No.	Item	Condition	Performance	Remarks
1	Connector	—	RJ45	—
2	Ethernet	—	10Base-T	IEEE802.3
			100Base-TX	IEEE802.3u
			1000Base-T	IEEE802.3ab
			2.5GBase-T	IEEE 802.3bz
			5GBase-T	IEEE 802.3bz
	10GBase-T	IEEE 802.3an		
3	Transmission Band	—	1~500 MHz	
4	Attenuation	1~100MHz	≦1.0 dB	
		~250MHz	≦1.5 dB	
		~500MHz	≦3.0 dB	
5	Near End Crosstalk (NEXT)	~500MHz	26.7 dB typ.	
6	AC Withstand Voltage	1mA 1minute	≧2.0kV	Between Primary-Secondary※
7	Rated Impulse Withstand Voltage	1.2/50 μs	≧6.0kV	Between Primary-Secondary※
8	Insulation resistance	DC 500V	≧1,000 MΩ	Between Primary-Secondary※

Note) Test conditions

Temperature 20±15 °C, Humidity 65±20 % (IEC Publication 160 (normal condition of test place))

※: Measure by shorting pins 1~8.

6. Inspection

The inspection of electrical characteristics, mechanical characteristics and exterior shall be held as following Table.3

Table.3

Item	Inspection Type	Judgment Standard
Ethernet	Model Inspection	It depends on clause 5.
Attenuation	Total Inspection	
Near End Crosstalk (NEXT)	Model Inspection	
AC Withstand Voltage	Model Inspection	
Rated Impulse Withstand Voltage	Model Inspection	
Insulation resistance	Total Inspection	
Appearance	Total Inspection	It depends on Structure`s figured by S-211400A11
Dimension	Sampling Inspection	

Note1) The sampling Inspection of dimensions, I assume it n=5, Ac=0, Re=1

Note2) Model Inspection; This inspection is executed more than one about the first lot that was able to expand in a production process. However, the item from which the performance is confirmed by the same type of product might be omitted.

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7. Packaging and marking of wrapping box

7.1 Packaging

The product is packed in wrapping box.

7.2 Marking of wrapping box

Following particulars are marking on wrapping box.

(1) Product Name (2) Manufacturer's name or its abbreviation (3) Production lot number

8. Quality assurance and warranty period

The warranty period is for one year from the delivery date. Your product will be replaced with a product in good condition if a problem that occurs during this period is determined to be the responsibility of Sankosha. Replacement is limited to the actual product only. Any expenses incurred by the replacement will be charged to the customer.

This product was shipped after a strict inspection. If a problem arises due to a manufacturing deficiency or if you believe the product was damaged during shipment, please inquire with your distributor or local Sankosha branch office.

9. Environmental correspondence (RoHS compliant)

This product does not contain more than specified provisions for substances subject to regulation (10 substances) in the EU RoHS Directive (*), except for exemptions.

10 substances: Lead, Mercury, Cadmium, Hexavalent Chromium, PBB, PBDE, DEHP, BBP, DBP, DIBP.

* European Parliament / Council Directive 2011/65 / EU, (EU) 2015/863

10. Notes

Use the same cable on the LINE side and the EQUIP side to connect to this products.

Do not connect UTP and STP cables together.

The protection performance of this product may not be exhibited and it may lead to the failure of the protected device.