

## DATASHEET

**CATEGORY: ATLAN**  
**NAME: ATLAN 1000 BASE-T CAT6 POE++ In(C2)=2kA**  
**REFERENCE: AT-2220**

### PRODUCT DESCRIPTION

ATLAN 1000 BASE-T CAT6 POE++ - Individual surge protector in a metallic enclosure for POE++ network with category 6 cables. 1 GBit/s. RJ45 Input/Output. C2 test (2kA/4KV). Up = 320V. Includes RJ45, 0.5 m long cable.



ATLAN protectors are especially designed to prevent failures in data transfer between equipment within the same network. They protect the electronic circuit inputs of the network cards against damage due to transient currents.

ATLAN 1000 BASE-T CAT6 POE++ is a protector with RJ45 cable and RJ45 output connector, able to withstand current up to 2 kA for each line with a transfer speed of 250 MHz.

It is especially designed to individually protect every piece of equipment connected to a 1000 BASE-T computer network with category 6 wiring which transmits a large amount of data(workstations, graphic stations, servers etc.)

Includes 50 cm category 6 cable.

Tested in official and independent laboratories, obtaining their characteristics according to relevant standards (shown in the table).

### DATASHEET

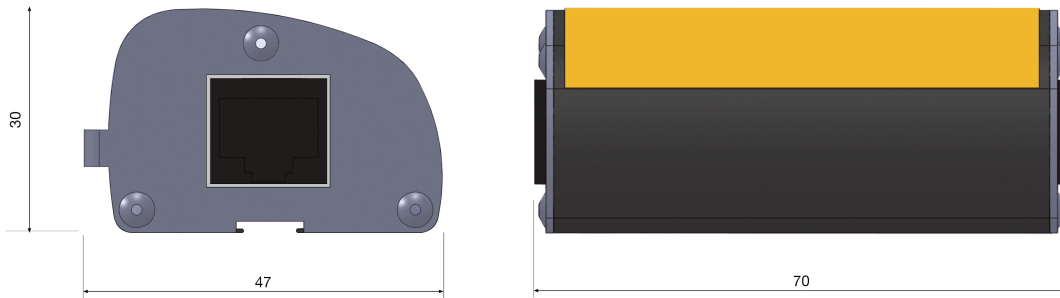
Reference	AT-2220
Maximum transfer speed	1000 Mbit/s
Nominal voltage (Un)	48 VDC
Maximum continuous operating voltage (Uc)	60 VDC
Nominal discharge current per line C2 (In (C2))	2 kA
Protection level at In(8/20 μs wave) (Up(In))	320 V
Maximum operating current (IL)	1 A
Series resistance (Rs)	2,5 Ω
Response time (tr)	< 10 ns
Working temperature	-40 °C to +70 °C
Protector location	Indoor

Type of connection	Series (two ports)
Nr. of pairs protected	4 pairs
Dimensions	68 x 47 x 30 mm
Enclosure material	Aluminium
Enclosure protection	IP20
Input / output connector	RJ45 cable / RJ45
Earthing system	Screw M5

> TESTS AND CERTIFICATIONS

Certificated tests according to: UNE-EN 61643-21  
 Relevant standards: UNE 21186, NF C 17-102, IEC 62305  
 Products compliant with EC requirements.

> DIAGRAM (mm)



## INSTRUCTIONS

> INSTALLATION

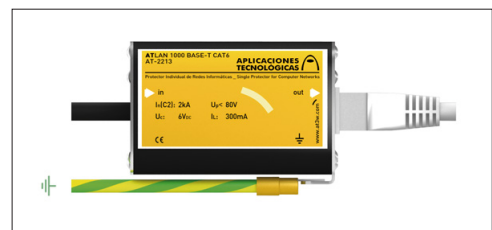
Protection should be installed as close as possible to the equipment. A cable with RJ45 connector has 8 wires. ATLAN protects 4 pairs (8 wires) in series.

If there are two pieces of equipment located in separate buildings but linked together, the protection must be installed on both sides of the line.

The recommended procedure for installation is the following:

- Insert the protector between the cable with RJ45 connector and the equipment to be protected.

- Bond the protector to the ground using the faston type connector provided.



> SAFETY AND MAINTENANCE

Connection to earth is a must. Earthing in the whole installation must be bonded either directly or by a spark gap and resistance should be lower than 10 Ω.

If the indications on this datasheet are not fulfilled during use or installation of the protectors, the protection provided by this device could be compromised.

LOGISTICS

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Harmonized code	85.35.40.00
Package	According to order
Delivery term	According to order

OTHER INFORMATION

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> OTHER REFERENCES

**AT-2213:** ATLAN 1000 BASE-T CAT6

**AT-2232:** ATLAN, ATFONO accessory for DIN rail

> RELATED PRODUCTS



**AT-2204**  
ATLAN 1000BASE-T  
POE