



> PROTECTION FOR DATA AND TELECOMMUNICATION LINES

> ATLAN SERIES

> ATLAN

Individual protector for computer networks



- > **AT-2107 ATLAN 100 BASE-T:** individual network SPD with speed of 100 Mbit/s.
- > **AT-2204 ATLAN 1000 BASE-T POE:** individual network SPD with speed of 1 Gbit/s Power Over Ethernet type.
- > **AT-2207 ATLAN 1000 BASE-T:** individual network SPD with speed of 1 Gbit/s.

ATLAN is a protector with **RJ45 input and output**, able to withstand current up to 2 kA per line.

It is available in different voltages and data transmission speeds.

It is designed to individually protect every individual piece of equipment connected to the computer network.

The **1000 BASE-T** version is designed for equipment which transmits a **large amount of data** (workstations, graphic stations, servers etc.)

Includes 50 cm cable with RJ45 connector.

ATLAN have been tested in **official and independent laboratories**, obtaining their characteristics according to relevant standards (shown in the table).

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.

> INSTALLATION

Protection should be installed **as close as possible to the equipment**. A UTP cable with a 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:

- 1 Insert the protector between the cable with RJ45 connector and the equipment to be protected.
- 2 Bond the protector to the ground using the 'faston' type connector provided.



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.





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> TECHNICAL DATASHEET

Reference:		ATLAN 100 BASE-T AT-2107	ATLAN 1000 BASE-T POE AT-2204	ATLAN 1000 BASE-T AT-2207
Maximum transfer speed:		100 Mbit/s	1000 Mbit/s	1000 Mbit/s
Nominal voltage:	U_n	5 V _{DC}	48 V _{DC}	5 V _{DC}
Maximum continuous operating voltage:	U_c	6 V _{DC}	60 V _{DC}	6 V _{DC}
Nominal discharge current per line C2 4 kV (1.2/50 μs) / 2 kA (8/20 μs):	$I_n(C2)$	2 kA		
Protection level:	U_p	100 V	200 V	100 V
Maximum operating current:	I_L	300 mA		
Series resistance:	R_s	15 Ω		
Response time:	t_r	< 10 ns		
Working temperature:	ϑ	-40 °C to +70 °C		
Protector location:		Indoor		
Type of connection:		Series (two ports)		
No. of pairs protected:		4 pairs		
Dimensions:		68 x 47 x 30 mm		
Enclosure material:		Aluminium		
Enclosure protection:		IP20		
Input / output connector:		RJ45 / RJ45 shielded		
Earthing system:		6 mm faston		

Certificated tests according to: UNE-EN 61643-21

Relevant standards: UNE 21186, NF C 17-102, IEC 62305

> DIMENSIONS (MM)

