



## Series ATLAN - ATLAN 8 RJ-RJ

# Protector for computer network rack

ATLAN 8 RJ-RJ

### ATLAN SERIES

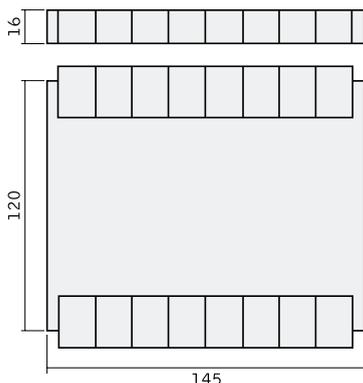
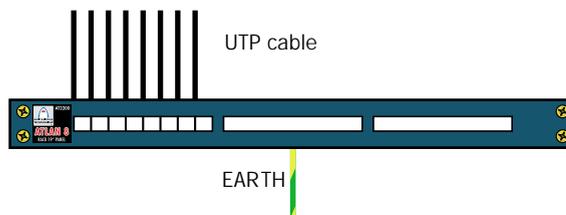
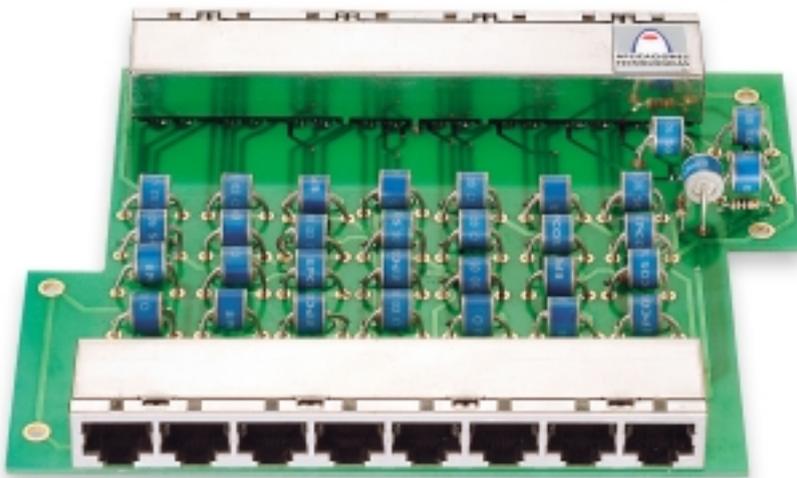
**AT2200 ATLAN 8 RJ-RJ:**  
protector ready for 8 local  
network lines

ATLAN SPDs are specially designed to avoid failures in data transfer between equipments inside the same network. They protect the input of the electronic circuits of the network cards against harms due to transient currents.

ATLAN 8 RJ-RJ is a SPD prepared for **eight line** protection, two pairs per line. This is done with a Printed Circuit Board with **RJ45 input/output connectors**.

It's aimed to be inserted into a rack and protect distribution computer network cabinets.

The accessory shown is used for 19" racks and it's prepared for 3 ATLAN 8 RJ-RJ units.



### INSTALLATION

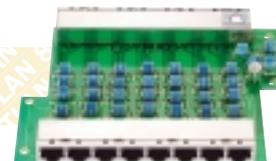
Protection should be done **as close as possible to the equipment**. In this particular case, we're talking about switches and hubs. In case where two equipments located **in separated buildings but linked together** are to be protected, protection must be installed in both sides of the line.

The recommended installation procedure is as it follows:

1. Screw down protectors in the box prepared for mounting in the 19" rack.
2. Place the box inside the de computer network distribution board.
3. Insert the network distribution lines that come off the hub or switch to the protector.
4. Bond the cabinet ground to the ground marked in the box chassis.

**Earth connection** is a must. Earthing in all the installation must be bonded either directly or by a spark gap and resistance should be lower than  $10\Omega$ . If the indications of this datasheet are not fulfilled during the use or installation of the SPDs, the protection assured by this device could be endangered.





**AT2200 ATLAN 8 RJ-RJ:** protector ready for 8 local network lines

### ATLAN 8 RJ-RJ

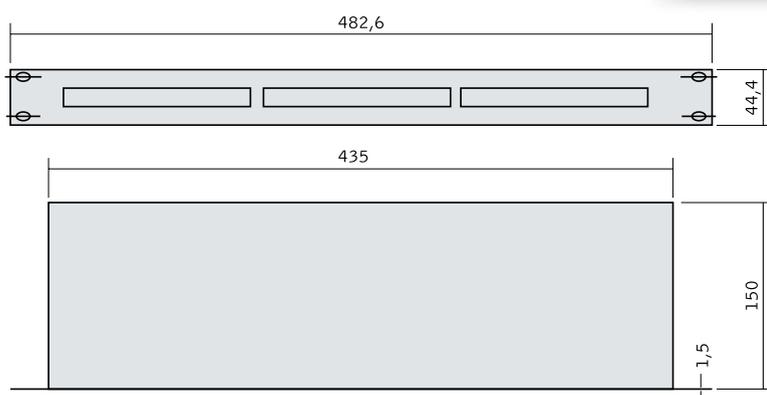
#### AT2200

Reference		
Serial Impedance:		100Ω
Characteristics impedance:		< 23,2dB (at 100MHz)
Insertion loss:		Min. 4dB (at 100MHz)
Attenuation crosstalk ratio:		Min. 24dB (at 100MHz)
Dual next crosstalk:		Max. 100Mbit/s
Nominal current:	$I_N$	300mA
Nominal voltage:	$U_N$	6V
Maximum continuous operating voltage:	$U_C$	6V
Nominal discharge current (8/20μs wave):	$I_n$	1,25kA
Maximum discharge current (8/20μs wave):	$I_{max}$	2,5kA
Protection level at $I_n$ , 8/20μs wave:	$U_p(I_n)$	25V
Protection level at 1kV/μs:	$U_p$	< 10V
Stray capacity:	$C$	< 47pF
Response time:	$t_r$	< 25ns
Input/output connector:		RJ45 / RJ45 screened
Tests according to IEC61643-21:2000		A2, B2, C2, C3, D1
Number of protected pairs:		Max. 8x2 pairs
Working temperature:	$\vartheta$	-40°C to +80°C
PCB dimensions:		120 x 145 x 16mm

#### Certificated tests according to: IEC 61643-21 / NFC 61-0740

Relevant standards: UNE21186 / NFC 17102 / UNE21185 / IEC61024-1 / IEC61312

### Accesory: ATLAN 8/24 - AT2201



**AT2201** is a metallic panel where ATLAN 8 RJ-RJ modules can be fitted in up to a number of 3, to be mounted in 19" racks.



## Series ATLAN - ATLAN 8 RJ-RJ 1000 BASE-T

ATLAN 8 RJ-RJ  
1000 BASE-T

# Protector for computer network rack

### ATLAN SERIES

#### AT2203 ATLAN 8 RJ-RJ 1000 BASE-T:

protector ready for 8 local  
network lines

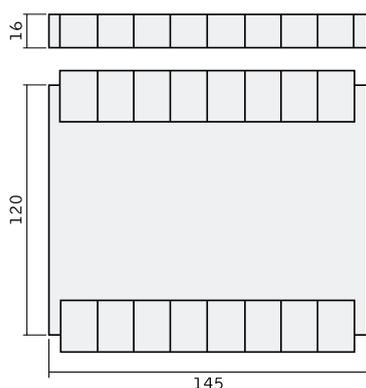
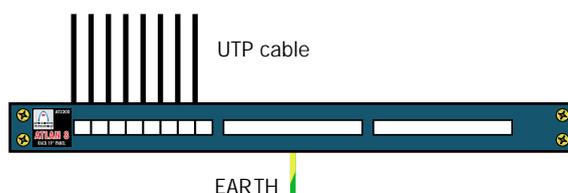
ATLAN SPDs are specially designed to avoid failures in data transfer between equipments inside the same network. They protect the input of the electronic circuits of the network cards against harms due to transient currents.

ATLAN 8 RJ-RJ 1000 BASE T is an SPD prepared for **eight line** protection, four pairs protected per line. This is done with a Printed Circuit Board with **RJ45 input/output connectors**.

With a withstanding current up to 0.6kA for every line and a transfer speed of Gbits/s.

It's aimed to be inserted into a rack and protect distribution computer network cabinets. Because of its high transfer speed, it's suitable for networks **transferring a big amount of data** (servers, workstations, graphic stations, etc).

The accessory shown is used for 19"racks and it's prepared for up to 3 ATLAN 8 RJ-RJ 1000 BASE-T units.



### INSTALLATION

Protection should be done **as close as possible to the equipment**. In this particular case, we're talking about switches and hubs. In case where two equipments located **in separated buildings but linked together** are to be protected, protection must be installed in both sides of the line.

The **recommended installation procedure** is as it follows:

1. Screw down protectors in the box prepared for mounting in the 19" rack.
2. Place the box inside the de computer network distribution board.
3. Insert the network distribution lines that come off the hub or switch to the protector.
4. Bond the cabinet ground to the ground marked in the box chassis.

**Earth connection** is a must. Earthing in all the installation must be bonded either directly or by a spark gap and resistance should be lower than  $10\Omega$ . If the indications of this datasheet are not fulfilled during the use or installation of the SPDs, the protection assured by this device could be endangered.





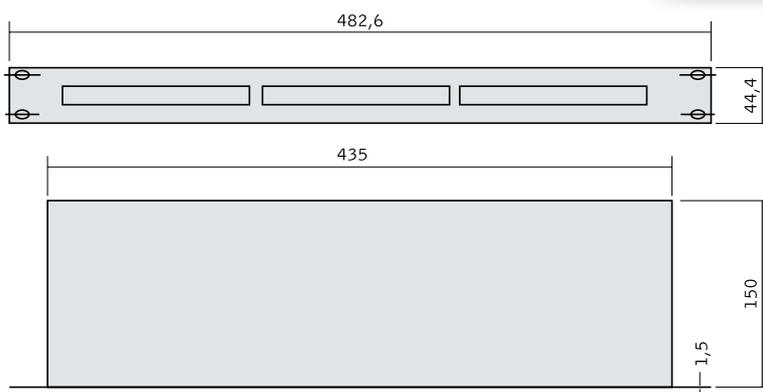
**AT2203 ATLAN 8 RJ-RJ 1000 BASE-T:**  
protector ready for 8 local network lines

		<b>ATLAN 8 RJ-RJ 1000 BASE-T</b>
		<b>AT2203</b>
Reference		<b>AT2203</b>
Serial Impedance:		100Ω
Characteristics impedance:		< 23,2dB (at 100MHz)
Insertion loss:		Min. 4dB (at 100MHz)
Attenuation crosstalk ratio:		Min. 24dB (at 100MHz)
Dual next crosstalk:		Max. 100Mbit/s
Nominal current:	$I_N$	300mA
Nominal voltage:	$U_N$	6V
Maximum continuous operating voltage:	$U_C$	6V
Nominal discharge current (8/20μs wave):	$I_n$	300A
Maximum discharge current (8/20μs wave):	$I_{max}$	600A
Protection level at $I_n$ , 8/20μs wave:	$U_p(I_n)$	25V
Protection level at 1kV/μs:	$U_p$	< 10V
Stray capacity:	$C$	< 3pF
Response time:	$t_r$	< 25ns
Input/output connector:		RJ45 / RJ45 screened
Tests according to IEC61643-21:2000		A2, B2, C2, C3, D1
Number of protected pairs:		Max. 8x4 pairs
Working temperature:	$\vartheta$	-40°C to +80°C
Dimensions PCB:		120 x 145 x 16mm

**Certificated tests according to: IEC 61643-21 / NFC 61-0740**

Relevant standards: UNE21186 / NFC 17102 / UNE21185 / IEC61024-1 / IEC61312

## Accesory: ATLAN 8/24 - AT2201



**AT2201** is a metallic panel where ATLAN 8 RJ-RJ modules can be fitted in up to a number of 3, to be mounted in 19" racks.