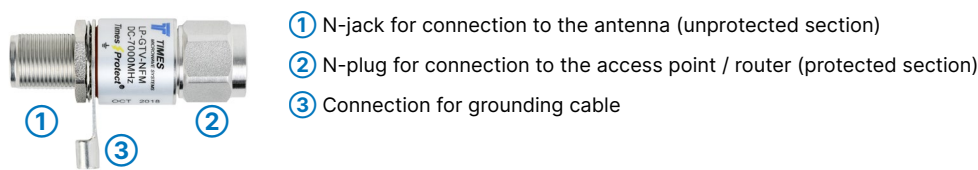# AirLancer SurgeProtect

Mounting instructions

The surge arrester AirLancer SurgeProtect is a vital component for providing lightning protection to the interior electronics of networks that are connected to outdoor antennas. Whatever the circumstances, the deployment of the AirLancer SurgeProtect is essential – despite outdoor lightning-
protection measures, partial discharges can still give rise to overvoltage that can damage sensitive modules of access points and routers. The AirLancer SurgeProtect is always mounted between the access point / router and the antenna, preferably as near as possible to the access point / router.

In addition to this, an AirLancer Extender SN-LAN(-10G) surge arrester can also be used to reduce possible surges in the Ethernet or PoE cable.

Connectors of the AirLancer SurgeProtect

The AirLancer SurgeProtect has two connectors and is positioned between the access point / router and the antenna.

① N-jack for connection to the antenna (unprotected section)

② N-plug for connection to the access point / router (protected section)

③ Connection for grounding cable

Connecting to the access point / router

Connect the SurgeProtect to an access point or router by connecting the protected section of the SurgeProtect directly to the antenna connector of the access point / router.

ⓘ The AirLancer AN-RPSMA-NJ adapter (available as an accessory) can be used to connect to LANCOM indoor access points.

! When mounting outdoors, ensure that the screw connections are waterproof. A secure seal will be provided by teflon tape or self-vulcanizing tape, for instance.

Connecting to the antenna

For connection to the antenna, first connect the end of the antenna cable (making sure that this is as long/short as needed) to the N-jack of the AirLancer SurgeProtect. Then connect the other end of the antenna cable to the antenna itself.

ⓘ You may require an adapter or adapter cable depending on the type of connector.

! When connecting the antenna, ensure that all connections to the antenna are water-resistant screw connectors. A secure seal will be provided by teflon tape or self-vulcanizing tape, for instance.

Grounding the AirLancer SurgeProtect

The mounting of the AirLancer SurgeProtect must be sufficiently grounded so that any overvoltages can be conducted away to the building's earthing system.

To earth the AirLancer SurgeProtect, connect the earthing ring and cable lug supplied to a suitable earth cable. Earthing can be implemented as follows depending on the application:

→ For access points or routers installed indoors, the potential load is equalized via the building's grounding line by PE cable (protective-earth cable, min. 4 mm² Cu).

→ For an access point or router mounted outdoors, its ground and the ground of the AirLancer SurgeProtect are connected via the protective-earth cable (min. 6 mm² Cu) of the pole or of the antenna, e.g. via the antenna mounting clamps.

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