

We are the authority
on lightning and surge protection
ensuring uninterrupted communications
for a connected world.

A P P L I C A T I O N

We Protect Broadband Wireless Access

Market Issues:

Wireless access network designers locate their antennas as high on a tower as possible to alleviate obstruction issues and to create better line-of-site advantages. These tower-top antennas, connected by coax to radios located in the equipment shelter, are vulnerable to lightning strikes to the tower or to proximity strikes. Either way revenue will suffer from outages.

In a broadband wireless access network the major cause of lost revenue is downtime due to equipment failure, remedial RF performance, or periodic maintenance. Installing a high-pass filter lightning protector can prove to be a cost saving measure by eliminating or easing these burdens.

Lightning and EMP surges can bring down an access point in a blink of an eye, and since downtime equates to lost revenue it makes sense to protect these profit generating sites with the best lightning protection available, especially when protecting these sites is easy and comparatively inexpensive.

A high-pass filter, unlike a gas tube, is maintenance free and has a higher surge carrying capacity than other lightning protectors. Additionally, the high-pass filter design has consistent RF characteristics, which means fewer trips to the site to check on equipment and more time making money.

PolyPhaser
CORPORATION

We Protect
The World's Telecommunications
Infrastructure

We Protect Broadband Wireless Access

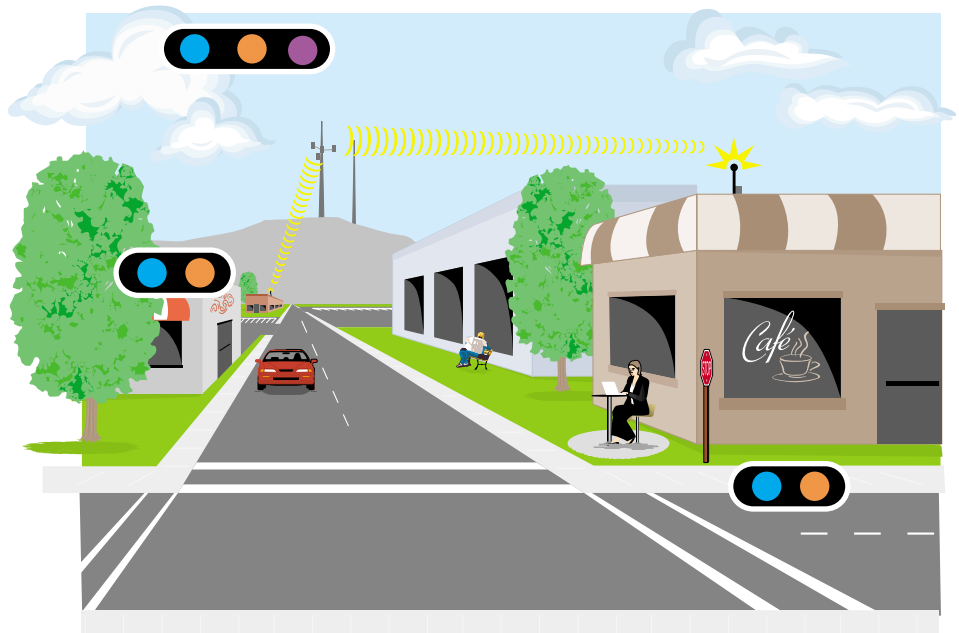
Resolution:

The best solution for Outdoor Units (ODU) equipment is robust, weatherized primary protectors. The Customer Premise Units (CPU) typically is not protected by the equipment provider; however, as a minimum precaution a secondary protector should be utilized at the entry to the building.

Protection should be placed at three strategic locations firstly, at the entry to the building; secondly, at the equipment inside the shelter if the site is a co-located site; and thirdly, at the tower top to prevent damage to tower-mounted equipment.

Products:

The perfect protector for tower top data equipment is the IX series, which is a rugged, hard wired, weatherized protector for twisted pair data. This modular protector is made to withstand the high current surges that are common to the top of a tower and therefore is suitable for use as a protector for ODU equipment. At the entry to the building another IX should be used.



A NetGuard® protector is the best choice as a secondary protector as it is built for indoor applications and incorporates an RJ-45 jack for ease of installation and maintenance.

PolyPhaser has a complement of coaxial protectors from 2-10 GHz. The AL-LSXM, DSXL, and LSXL provide the best coaxial protection in the industry at these frequencies.

With PolyPhaser you can put our proven protection, knowledge, and experience to work for you. Visit our website or contact us for details on how we can keep you communicating.

At PolyPhaser we protect people, data, and equipment.

● AC/DC Series

12Vdc to
240Vac power
protectors

● Data

RJ45 or hard
wired data
protectors

● Grounding

entry panels and
cable grounding
products