

Omnidirectional Outdoor Base Station Installation Requirements

Can omnidirectional antennas be used as base station antennas?

Both omnidirectional antennas and directional antennas can be used as base station antennas and the signal coverage from an omnidirectional antenna will be in all directions equally while if a directional antenna such as a dish antenna or a sector antenna is used, the signal coverage will be focused towards one specific direction.

What is omnidirectional fiberglass base station antenna?

Omnidirectional fiberglass base station antennas transmit and receive signals equally in all directions. They are used in networks where the consumers can be located in any direction in a circular area around the antenna.

What is a base station antenna?

Base station antennas are also known as cell site antennas and cellular antennas, and they are typically mounted on a tower or rooftop and connected to a base station through coaxial cables. Base station antennas are available in different shapes and sizes and can be either omnidirectional antennas or directional antennas.

What is a sector base station antenna?

The coverage area of these antennas is typically between 60 degrees to 120 degrees but could extend further. Due to their directionality, sector base station antennas have a comparatively higher gain. Hence they have a high gain and therefore better signal strength and longer radiation distances or ranges.

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